

**AD 2 AERODROMES****RJTT AD 2.1 AERODROME LOCATION INDICATOR AND NAME****RJTT - TOKYO International****RJTT AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	353312N/1394652E 301° /2.3km from RWY 34R THR
2	Direction and distance from (city)	14km (7.6nm) S of Tokyo Station (Japan Railway)
3	Elevation/ Reference temperature	21ft / 31°C (2004-2008)
4	Geoid undulation at AD ELEV PSN	117.6FT
5	MAG VAR/ Annual change	8°W (2021) /0.07'E
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Civil Aviation Bureau, Ministry of Land, Infrastructure, Transport and Tourism. Tokyo International Airport, 3-1. 3-chome, Haneda-Kuko, Ota-ku, Tokyo, 144-0041 Japan. Tel : 03-5757-3000, Fax : 03-5756-1511 Tel(AD) : 03-5756-1531,1532, Tel(AIS) : 050-3198-2863, Fax : 03-5756-1528 AFS : RJTTYFYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

**RJTT AD 2.3 OPERATIONAL HOURS**

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24
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	Nil
12	Remarks	Nil

**RJTT AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	All the modern institutions that deal with the weight thing to Boeing747-8F type freighter.
2	Fuel/ oil types	Fuel Grades : JET A-1 Oil grades : Turbine grades
3	Fuelling facilities / capacity	Hydrant refueling,fuel truck/Not limitation
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

**RJTT AD 2.5 PASSENGER FACILITIES**

1	Hotels	At Airport
2	Restaurants	At Airport
3	Transportation	Monorail, Railways, Busses and Taxis
4	Medical facilities	First aid treatment, ambulance
5	Bank and Post Office	At Airport
6	Tourist Office	At Airport
7	Remarks	Nil

**RJTT AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	CAT 10
2	Rescue equipment	Chemical fire fighting truck x 5, Water-supply truck, Lighting power supply truck, Emergency medical equipments conveyance truck
3	Capability for removal of disabled aircraft	To be issued later
4	Remarks	Nil

**RJTT AD 2.7 SEASONAL AVAILABILITY-CLEARING**

1	Types of clearing equipment	Snow remove equipments: 1) 6 snow sweepers 2) 8 snow plows 3) 2 rotaries 4) 2 motor graders 5) 5 loaders
2	Clearance priorities	1) RWY16R/34L and 16L/34R, Taxiways attached to the RWY 2) RWY04/22 and 05/23, Taxiways attached to the RWY
3	Remarks	Seasonal availability : All seasons. Snow removal will be commenced, if the RWY and TWY are covered with a depth of 3cm snow or more.

**RJTT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1	Apron surface and strength	<p>Terminal 1, Terminal 2            Surface : Concrete            Strength : PCN 74/R/B/X/T</p> <p>Terminal 3            Surface : Concrete            Strength : PCN 78/R/B/X/T</p> <p>N Area            Surface : Concrete            Strength : PCN 48/R/B/X/T</p> <p>N Area Spot NR951-956, 961-969            Surface : Concrete            Strength : PCN 91/R/B/X/T</p> <p>Compass Area            Surface : Concrete            Strength : PCN 74/R/B/X/T</p>
2	Taxiway width, surface and strength	<p>Surface : Asphalt-concrete, concrete            Strength : PCN 75/F/B/X/T, PCN 74/R/B/X/T            Width :            34m(111FT) :            A6, A9, A11, B2, B5, B7, C8, C9,            E3(between C and E), E4, E5, E8(between C and E),            E9(between C and E), E12(between C and E),            G(between C and E), H(between A and W), H(between C and E),            J(between A and W), J(between C and E), K(between A and W),            L4, L6, L9, L11, M2(between C and E), W6 THRU W10, W11(between A and W),            W13</p> <p>32m(105FT) :            A1, A2, A4, B1, C1, E1, E2, E10(between C and E), G(between A and W),            K(between C and E), L3, R(between G and H), R(between K and J), W1</p> <p>30m(98FT) :            A, A3, A5, A7, A8 THRU A10, A12 THRU A16, B, B3, B4, B6, B8 THRU B14,            C, C2 THRU C7, C10 THRU C14, D, D1 THRU D7, E3(between E and R), E,            E8(between E and R), E9(between E and R),            E10(from spot NR55 to spot NR51), E12(between E and R),            G(between E and W), H(between E and W), H1, H2, R1,            J(between E and W), J1, J2, K(between E and W), L, L5, L10, L12 THRU L16,            M, M1, M2(between E and R), N(between spot NR981 and N7), N1, N5, N7, P,            P3 THRU P11, Q, Q1, Q2, R(between A and G), R(between E8 and E9),            R(between E10 and J), R(between K and C), R(between A and S),            S, S1 THRU S3, T, T1 THRU T9, T11, T12, T14, U2, U4, V, W, W11(between W            and R1), Y1</p> <p>23m(75FT) : Other</p>
3	ACL and elevation	Not available
4	VOR checkpoints	Not available

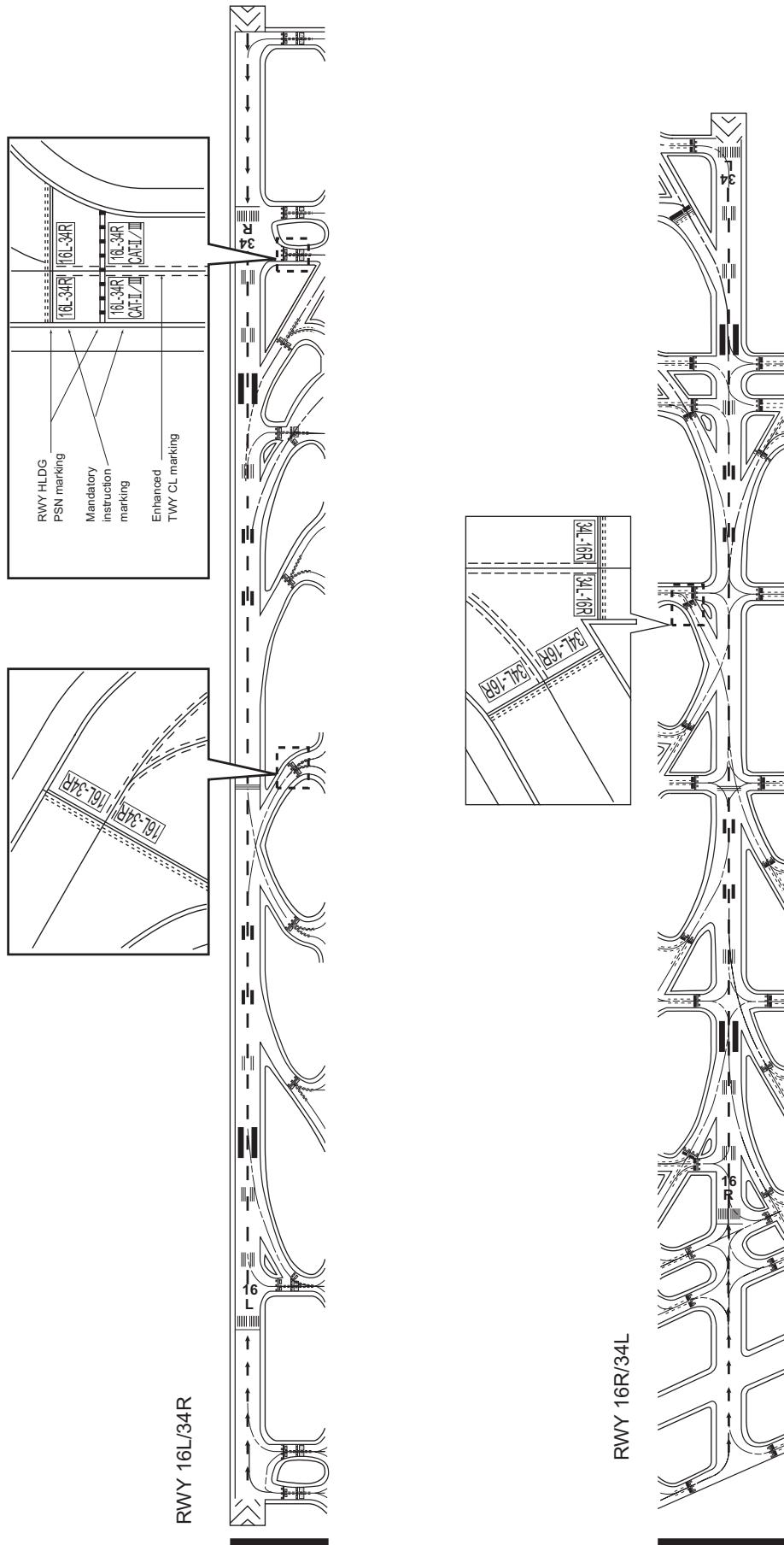
5	INS checkpoints	<p><b>Spot NR</b></p> <p>1 : 353244.87N/1394715.45E      2 : 353243.91N/1394713.19E      3 : 353242.77N/1394710.79E      4 : 353241.67N/1394708.47E      5R : 353240.61N/1394706.99E      5 : 353240.85N/1394707.04E      5L : 353240.41N/1394705.84E      6 : 353241.75N/1394705.46E      7 : 353243.30N/1394705.33E      8 : 353245.27N/1394705.86E      9 : 353248.11N/1394704.81E      10 : 353250.36N/1394703.25E      11 : 353252.33N/1394700.22E      12 : 353252.76N/1394658.54E      13 : 353254.41N/1394657.37E      14 : 353255.85N/1394657.64E      15 : 353258.98N/1394657.09E      16 : 353301.21N/1394655.50E      17 : 353303.24N/1394652.77E      18 : 353303.50N/1394650.89E      19 : 353304.80N/1394648.96E      20 : 353306.09N/1394648.17E      21 : 353306.70N/1394649.16E      22 : 353307.44N/1394651.14E      23 : 353308.19N/1394653.09E      24 : 353309.70N/1394655.12E</p> <p>31 : 353313.19N/1394648.39E      32 : 353314.60N/1394647.42E      33 : 353316.57N/1394646.03E      34 : 353318.53N/1394644.64E      35 : 353320.50N/1394643.24E      36 : 353322.46N/1394641.85E      37 : 353324.43N/1394640.45E      38 : 353326.39N/1394639.06E      39 : 353328.36N/1394637.66E      40 : 353330.32N/1394636.27E      41 : 353332.28N/1394634.87E</p> <p>51 : 353316.97N/1394710.41E      52 : 353318.11N/1394712.58E      53 : 353319.25N/1394714.98E      54 : 353320.22N/1394717.28E      55 : 353321.20N/1394719.34E      56 : 353318.42N/1394721.31E      57 : 353317.26N/1394719.15E      58 : 353314.90N/1394715.68E      59 : 353311.22N/1394717.32E      60 : 353309.26N/1394718.72E      61 : 353307.29N/1394720.11E      62 : 353305.33N/1394721.51E      63 : 353303.36N/1394722.90E      64 : 353301.40N/1394724.30E      65 : 353259.43N/1394725.69E      66 : 353256.29N/1394729.18E      67R : 353257.40N/1394732.54E      67 : 353257.49N/1394732.99E      67L : 353258.73N/1394733.01E      68 : 353258.54N/1394734.99E      69 : 353255.82N/1394737.27E      70 : 353254.33N/1394735.67E      71 : 353253.92N/1394733.45E      72 : 353252.85N/1394731.08E      73 : 353251.67N/1394728.59E      81 : 353313.04N/1394725.84E      82 : 353311.01N/1394727.27E      83 : 353306.60N/1394730.41E      84 : 353304.57N/1394731.84E</p> <p>101 : 353235.61N/1394632.63E      102 : 353234.38N/1394630.02E      103 : 353233.14N/1394627.41E      104 : 353231.90N/1394624.80E      105F : 353230.68N/1394622.23E      105P : 353230.91N/1394620.33E      106 : 353233.11N/1394618.77E      106R : 353233.52N/1394618.36E      106L : 353233.25N/1394620.00E      107 : 353236.04N/1394617.83E      107R : 353236.45N/1394617.42E      107L : 353236.11N/1394619.13E      108 : 353238.48N/1394616.10E      108R : 353238.89N/1394615.69E      108L : 353238.58N/1394617.37E      109 : 353240.52N/1394614.66E      110 : 353242.55N/1394613.21E      111 : 353244.59N/1394611.77E      112 : 353246.90N/1394610.12E      113 : 353248.94N/1394608.68E      114 : 353250.97N/1394607.23E</p> <p>121 : 353240.65N/1394626.06E      122 : 353242.75N/1394624.57E      123 : 353247.53N/1394621.33E      124 : 353249.20N/1394620.14E</p> <p>131 : 353241.47N/1394627.80E      132 : 353243.58N/1394626.30E      133 : 353248.25N/1394622.84E      134 : 353249.91N/1394621.66E</p> <p>140 : 353254.40N/1394614.86E      141 : 353255.60N/1394617.04E      142 : 353300.16N/1394613.74E      143 : 353258.90N/1394611.08E      144 : 353257.70N/1394608.54E      145 : 353256.46N/1394605.92E      146 : 353255.26N/1394603.39E      147 : 353253.79N/1394600.30E      148 : 353252.61N/1394557.81E      149 : 353251.43N/1394555.32E</p> <p>151 : 353306.65N/1394610.75E      152 : 353305.54N/1394608.40E      153 : 353304.42N/1394606.05E      154 : 353303.31N/1394603.69E      155 : 353302.19N/1394601.34E</p> <p>201 : 353204.82N/1394732.11E      202 : 353206.22N/1394731.32E      203 : 353208.26N/1394730.08E      204 : 353210.22N/1394728.69E      205 : 353212.18N/1394727.29E      206 : 353214.15N/1394725.90E      207 : 353216.11N/1394724.51E      208 : 353218.08N/1394723.11E      209 : 353220.04N/1394721.72E      210 : 353222.10N/1394720.51E      211 : 353223.98N/1394718.93E      212 : 353226.39N/1394717.22E      213 : 353228.44N/1394716.01E      214 : 353230.32N/1394714.43E</p>
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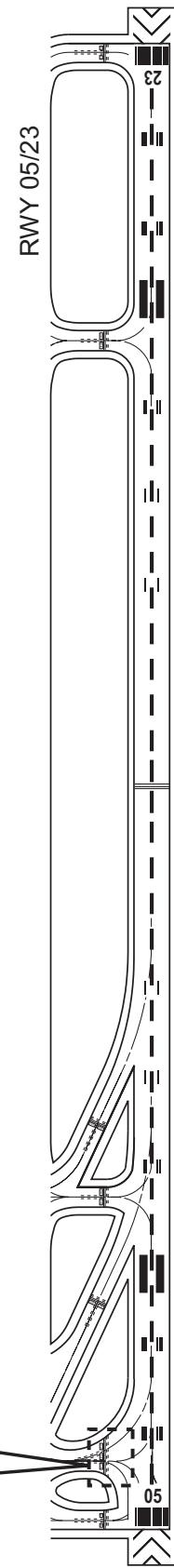
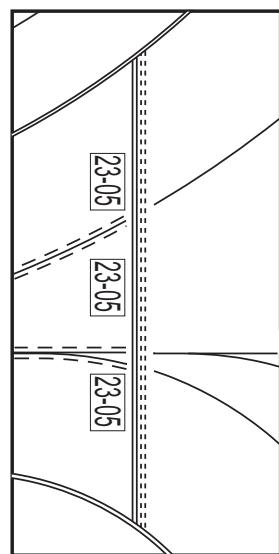
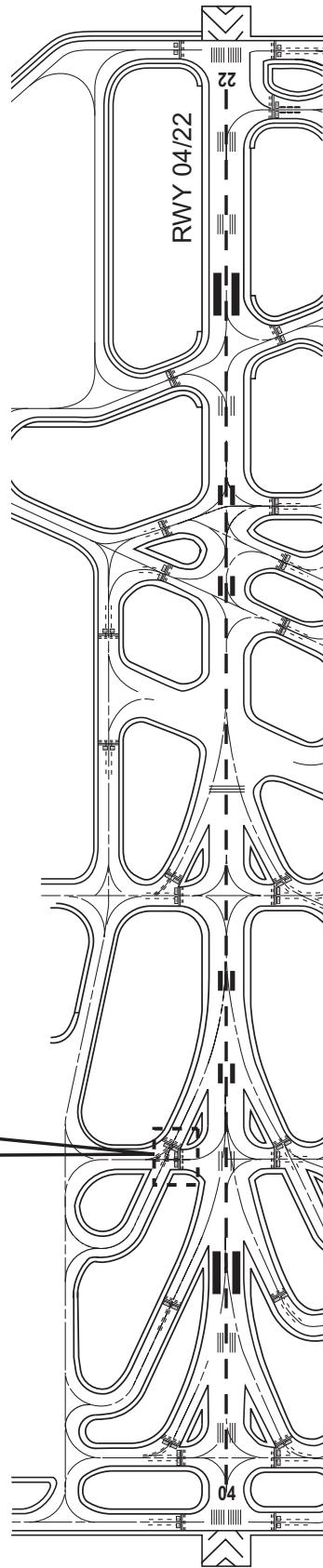
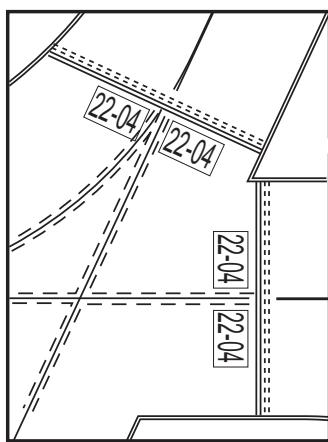
5	INS checkpoints	<p>Spot NR</p> <p>301 : 353346.49N/1394639.93E      302 : 353347.63N/1394642.33E      303 : 353348.77N/1394644.73E      304 : 353349.54N/1394647.40E      305 : 353350.96N/1394649.27E      311 : 353345.88N/1394639.02E      312 : 353346.52N/1394641.55E      313 : 353347.66N/1394643.96E      314 : 353349.22N/1394646.06E      315 : 353349.85N/1394648.59E</p> <p>331 : 353359.72N/1394651.90E      332 : 353355.35N/1394656.39E      333 : 353353.78N/1394658.18E      341 : 353400.48N/1394651.39E      342 : 353359.07N/1394653.13E      343 : 353354.96N/1394657.15E      344 : 353353.92N/1394659.52E</p> <p>351 : 353354.90N/1394614.70E      352 : 353356.83N/1394616.35E      353 : 353358.76N/1394618.00E      354 : 353400.68N/1394619.66E      355 : 353403.34N/1394622.14E</p> <p>361 : 353355.47N/1394614.66E      362 : 353357.59N/1394616.49E      363 : 353359.52N/1394618.15E      364 : 353359.81N/1394616.36E      365 : 353402.73N/1394620.54E      366 : 353403.13N/1394624.24E</p> <p>401R : 353336.59N/1394658.56E      401 : 353335.21N/1394659.00E      402 : 353333.22N/1394700.44E</p> <p>406 : 353331.04N/1394702.17E      407 : 353329.08N/1394703.57E      408 : 353327.11N/1394704.96E      501 : 353345.29N/1394702.69E      502 : 353343.54N/1394704.16E      503 : 353341.52N/1394705.44E      504 : 353339.55N/1394706.83E      505 : 353334.60N/1394710.28E      506 : 353332.80N/1394711.63E      507 : 353330.89N/1394713.13E      508 : 353328.92N/1394714.53E      509 : 353326.96N/1394715.92E</p> <p>V1 : 353322.75N/1394707.47E      V2 : 353324.85N/1394705.98E      VN : 353341.08N/1394654.86E      VS : 353338.04N/1394656.82E</p>
6	Remarks	Nil

**RJTT 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 sign : NR1 THRU NR4, NR5, NR6 THRU NR24, NR51 THRU NR66, NR67, NR68 THRU NR73, NR105P, NR106, NR107, NR108, NR109 THRU NR114, NR140 THRU NR149, NR406 THRU NR408 ACFT stand taxi lane : E8(BTN E and R), E9(BTN E and R), R(from E8 to E9) Visual docking guidance system : See below figure
2	RWY and TWY markings and LGT	<p>RWY: RWY 16L/34R, 16R/34L, 04/22, 05/23 (Marking) RWY designation, RWY CL, RWY THR, Aiming point, TDZ, RWY side stripe, RWY middle point, Displaced THR(RWY 16L/34R, 16R) (LGT) RCLL, REDL, RTHL, RENL, RTZL(RWY16L/34R, 16R/34L, 22, 23), WBAR(RWY16L/34R, 16R/34L, 22, 23)</p> <p>TWY: C10, D3 and D5 (LGT) Rapid exit taxiway indicator lights</p> <p>TWY: ALL TWY (Marking) TWY CL, RWY HLDG PSN, TWY side stripe (LGT) TWY edge LGT(except F), TWY CL LGT(except B12, D(between D7 and E), F, N1, N2, N3, N4, N, Y(between SPOT 312 and J2)), Taxiing guidance sign(except B12) TWY CL LGT on C4, C6, C7, C10, C11, B4, B6, T4, T6, A2, A5, A10, A12, L5 and L12 The intensity of the TWY CL LGT is more increased than that of other TWY CL LGT.</p> <p>TWY: C1 THRU C14 (LGT) Stop bar LGT, RWY guard LGT(90m off the runway center line)</p> <p>TWY: A1 THRU A16, C1, C2, C3, C5, C12, C13, C14, D1 THRU D5, L3 THRU L16 (LGT) RWY guard LGT(75m off the runway center line)</p> <p>TWY: A, E, M, R (Marking) Intermediate Holding Position (LGT) Intermediate Holding Position (see attached chart)</p> <p>TWY: A1, A3, A4, A6, A11, A13, A14, A15, A16, B1, B2, B5, B7, B9, B10, B11, L3, L4, L6, L11, L14, L15, L16, T1, T2, T5, T7, T9, T11 (LGT)Variable Message Signs (RWY status LGT) (see attached chart)</p> <p>SFC painted direction sign (See Figure "Type of Surface Painted Markings")</p>
3	Stop bars	<p>Stop Bar Lights Operations</p> <ol style="list-style-type: none"> <li>1) Stop Bar Lights are installed at each RWY holding position associated with RWY16L/34R</li> <li>2) Stop Bar Lights will be operated when the visibility or the lowest RVR of the RWY16L/34R is at or less than 600m.</li> <li>3) Stop Bar Lights on TWY C1, C2, C13 and C14 are controlled individually by ATC</li> <li>4) Stop Bar Lights on TWY C3 THRU C12 are not controlled individually by ATC.</li> <li>5) During the period Stop Bar Lights operated, TWY C3 THRU C12 are not available for departure aircraft.</li> </ol>
4	Remarks	<p>(Marking) Overrun area, ACFT PRKG PSN, Apron TWY CL (LGT) Apron flood LGT</p> <p>Runway Guard Lights Operations: Either Runway Guard Lights of 75m off runway center line or Runway Guard Lights of 90m off runway center line turn on in the daytime regardless of visibility condition of TWY C1, C2, C3, C5, C12, C13, C14</p>

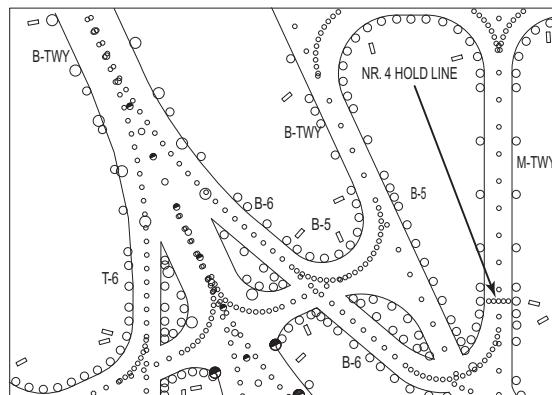
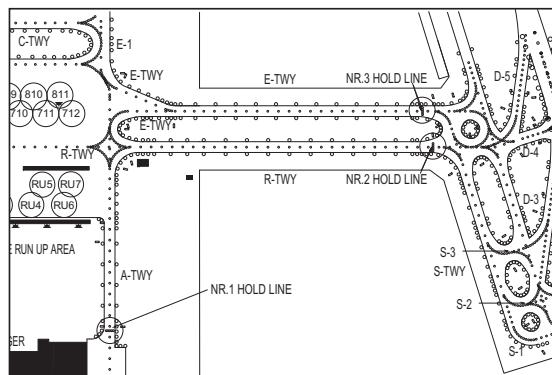
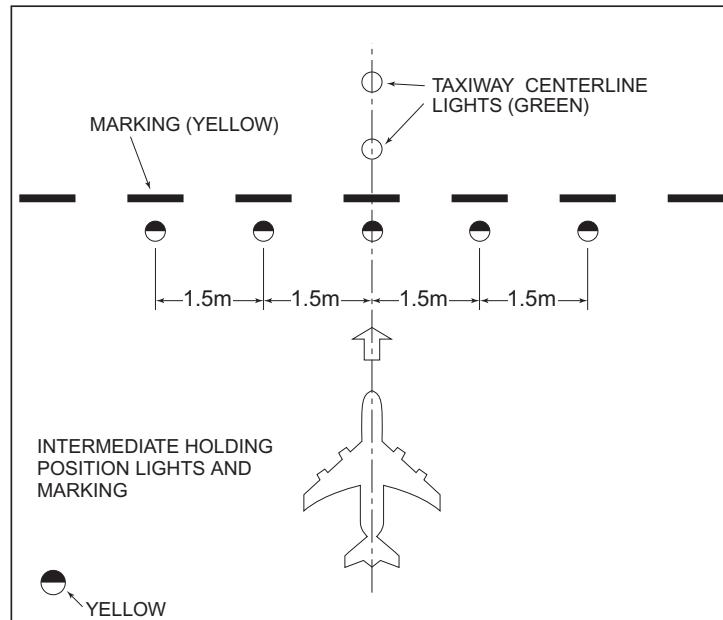
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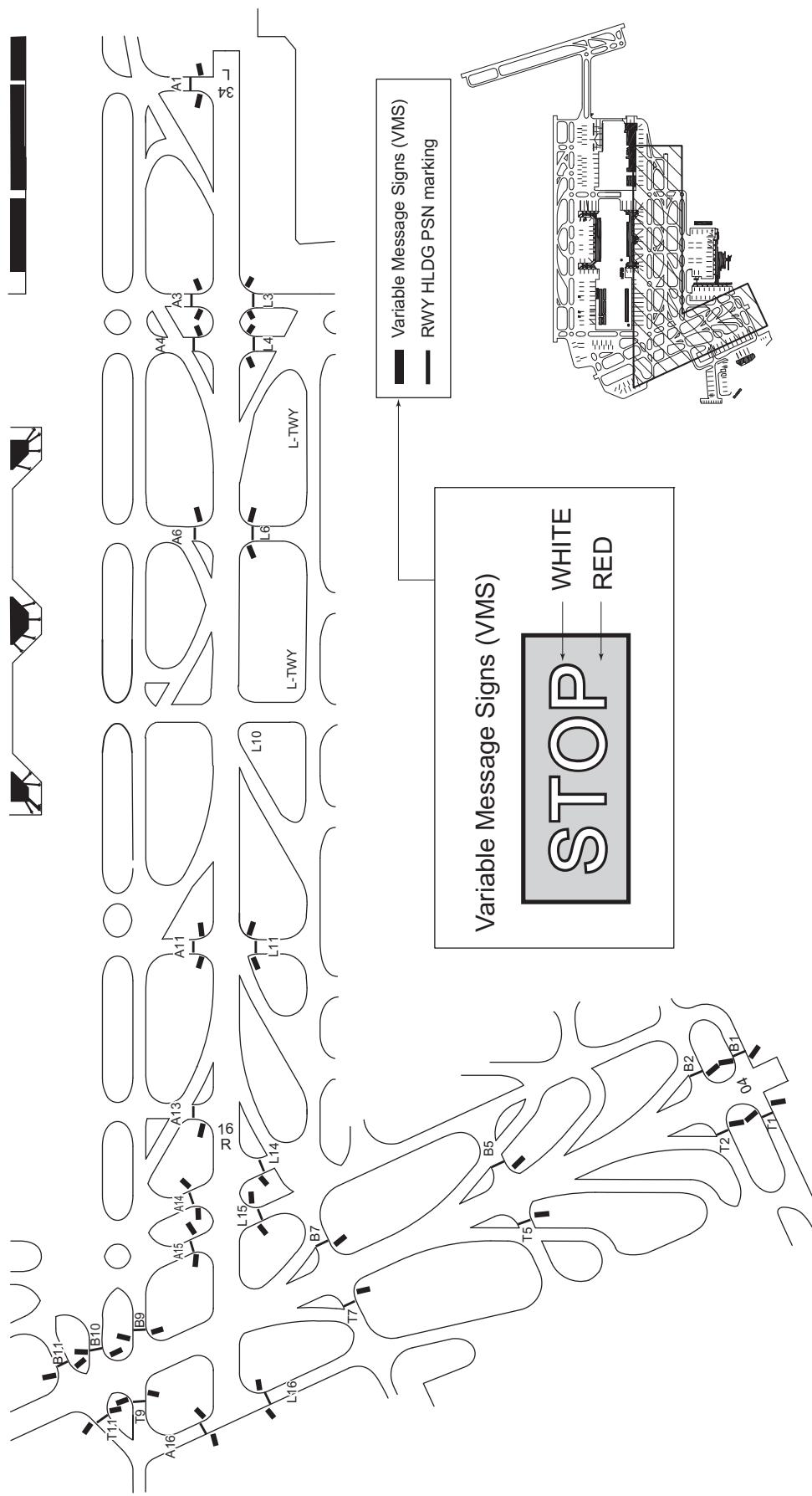
### Intermediate Holding Position Marking and Intermediate Holding Position Lights

1. The Intermediate Holding Position Marking indicates the position where aircraft is to hold to prevent collision with other aircraft on the taxiway. The Intermediate Holding Position Lights are collocated with the Intermediate Holding Position Marking and synchronized with the taxiway center line lights. The Intermediate Holding Position Lights consist of 5 yellow lights and the Intermediate Holding Position Marking is a single broken line as illustrated in the figure below;



2. Operational procedure  
See AD 2.20.6.4.

## Variable Message Signs (VMS)



NOTE : The TWY names and RWY HLGD PSN markings in this ATTACHMENT are depicted only for the TWYs where VMS are installed.

## Type of Surface Painted Markings

### 1. Type of Surface Painted Markings

- 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.

- 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 yellow frame.

### 2. On each of the taxiways A, A14, A15, A16, B, B6, B7, B9, B10, F, H, J, K, L, L13, L15, L16, M, N, N2, N3, N4, N5, T, T7, T9, T11, U1, U2, U4, W, surface painted markings are provided (refer attached drawing).

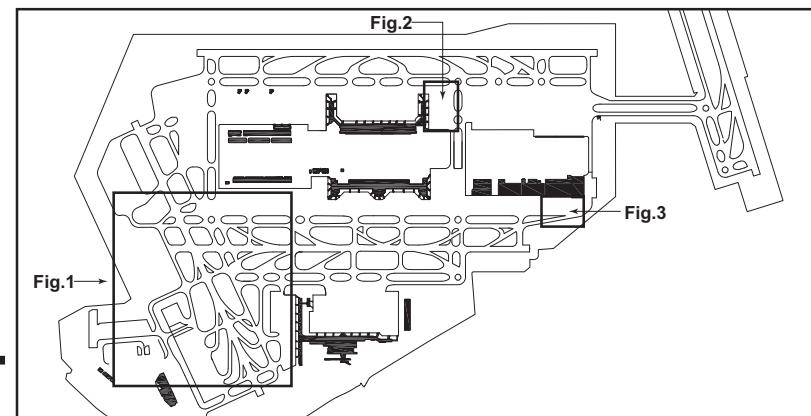


Fig.1

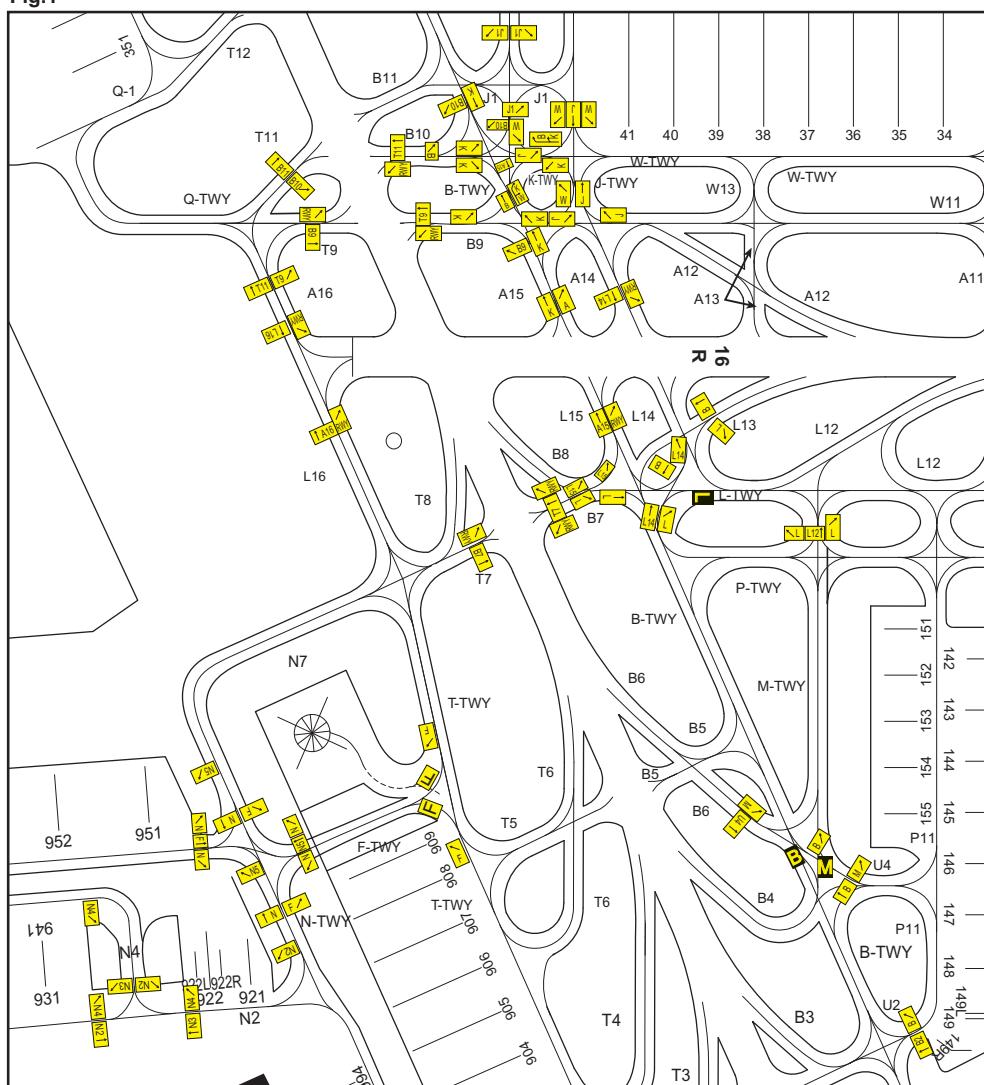


Fig.2

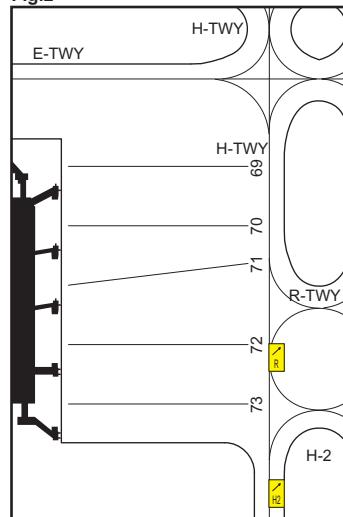
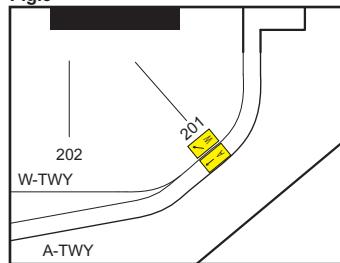


Fig.3



## VISUAL DOCKING GUIDANCE SYSTEM

### I. SAFEDOCK

#### 1. General

- (1) Aircraft parking stands NR1 THRU NR4, NR5, NR6 THRU NR24, NR51 THRU NR66, NR67, NR68 THRU NR73, NR105P, NR106, NR107, NR108, NR109 THRU NR114, NR140 THRU NR149, NR406 THRU NR408 are equipped with a SAFEDOCK visual docking guidance system.  
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 SAFEDOCK visual docking 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.

#### 2. Aircraft Type Indication

- (1) A message about the aircraft type from Spot Control System shall be confirmed and put into the system by ground operator.  
The system then carries out internal calibration and starts laser scanning simultaneously.  
The system shows the aircraft type on the display screen and then will begin to indicate yellow lead-in arrows scrolling upwards prompting the aircraft to proceed.(Fig.1)

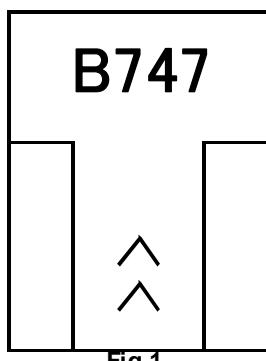


Fig.1

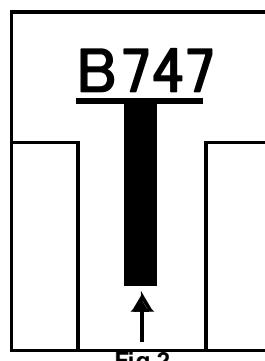


Fig.2

- (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 12 meters 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.

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 → Fig.4 → Fig.5 →

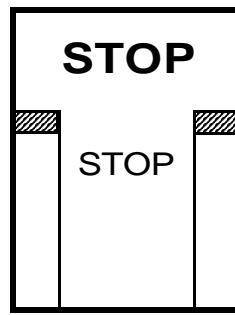


Fig.3

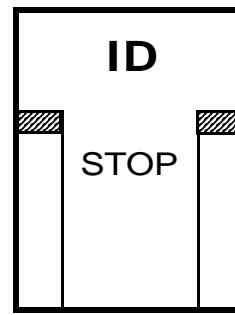


Fig.4

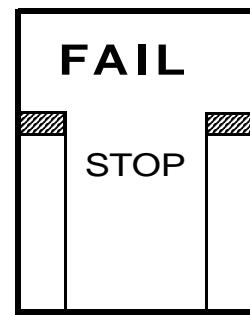


Fig.5

### 3.Taxiing and Lateral Center line Guidance

- (1) While taxiing the aircraft 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.6)

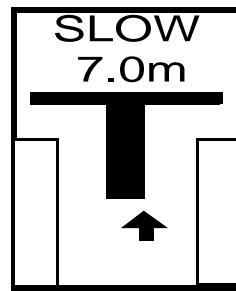


Fig.6

- (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.7, Fig.8)

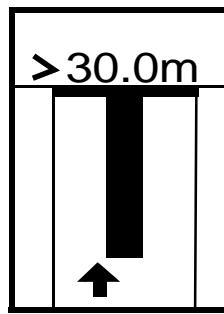


Fig.7

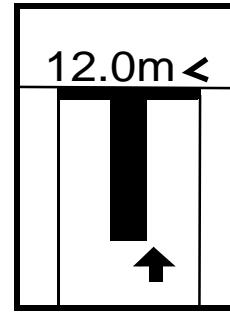
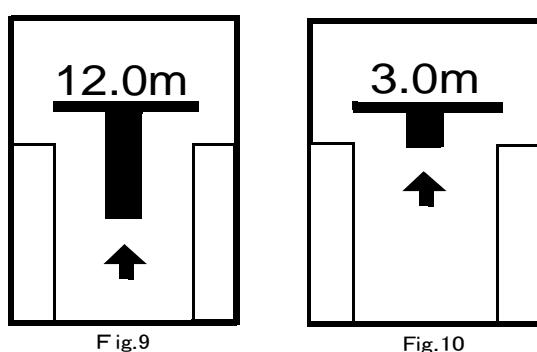


Fig.8

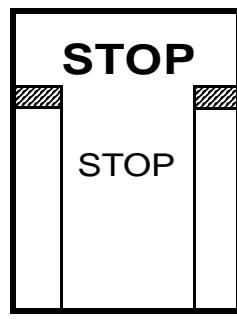
### 4.Stop Guidance

- (1) When the approaching aircraft is within 30 meters from the stopping position, display of digital countdown will start. As the aircraft approaches the stopping position, digital countdown is for every 1.0 meter(from 30.0 to 2.0 meters to the stop position) or for every 0.2 meters (from 2.0 to 0.0 meters to the stop position).

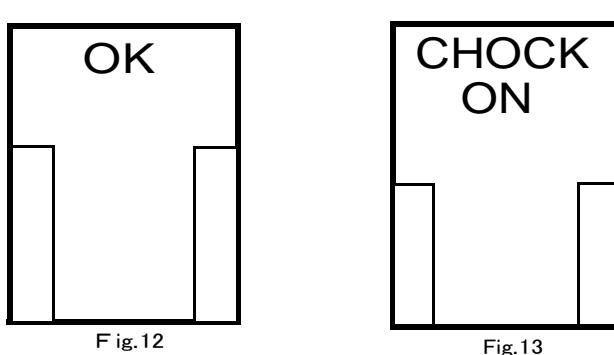
- (2) When the approaching aircraft is within 16 meters from the stopping position, the shaft of the illuminated "T" will start to reduce in its length from the bottom to indicate the approaching rate of the aircraft, indicating the remaining distance to the stopping position successively.(Fig.9, Fig.10)
- As the aircraft approaches the stopping position, the shaft of the illuminated "T" retract one row for every 0.5 meters.



- (3) 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.11)



- (4) When the aircraft is stopped at the correct stopping position, a message "OK" will be displayed on the screen in several seconds.(Fig.12)



- (5) When the operator applies chocks, and switches on "CHOCK ON" switch, the display screen will display "CHOCK ON".(Fig.13)

- (6) If the aircraft stops at a position beyond the correct stopping position, a message "TOO FAR" will be displayed on the screen.(Fig 14).

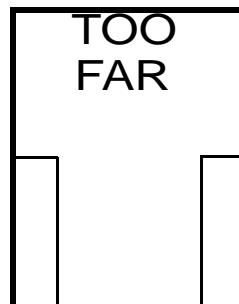


Fig.14

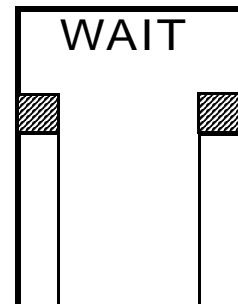


Fig.15

##### 5. 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.4, Fig.5, Fig.11, Fig.15)
- (2) Bad weather condition, 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 screen will deactivate the floating arrows and indicate "Aircraft type" and "SLOW".

This message will be superseded by the "T" bar, as soon as the system detects the approaching aircraft.  
The pilot must not proceed beyond the bridge, unless the "SLOW" text has been superseded by the "T" bar.

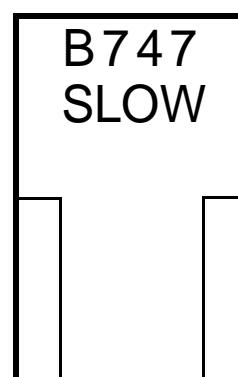


Fig.16

- (3) System breakdown, in case of a severe system failure, the display screen will go black, except for 2 red squares indicator. A manual backup procedure must be used for docking guidance.(Fig.17)

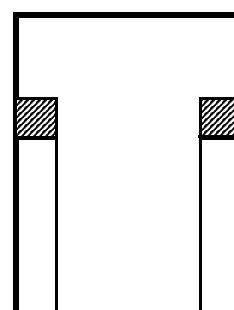


Fig.17

**RJTT AD 2.10 AERODROME OBSTACLES**

SEE RJTT AD2.24 AERODORME OBSTRUCTION CHART-ICAO

In approach / TKOF Areas

RWY/Area affected	Obstacle type	Coordinates	Elevation	Markings/LGT	Remarks
-	Lightning Rod	353218.52N 1394402.50E	217ft	-/-	above the conical surface
-	Lightning Rod	353218.50N 1394404.09E	220ft	-/LGTD	above the conical surface
-	Lightning Rod	353218.50N 1394404.56E	217ft	-/-	above the conical surface
-	Lightning Rod	353219.07N 1394404.53E	217ft	-/-	above the conical surface
-	Lightning Rod	353219.69N 1394404.53E	217ft	-/LGTD	above the conical surface
-	Lightning Rod	353220.08N 1394404.55E	217ft	-/-	above the conical surface
-	Chimney	353050.7N 1394547.4E	291ft	-/LGTD	above the conical surface
-	Building	353958.9N 1394459.0E	875ft	-/LGTD	above the conical surface
-	Building	353951.2N 1394415.7E	893ft	-/LGTD	above the conical surface

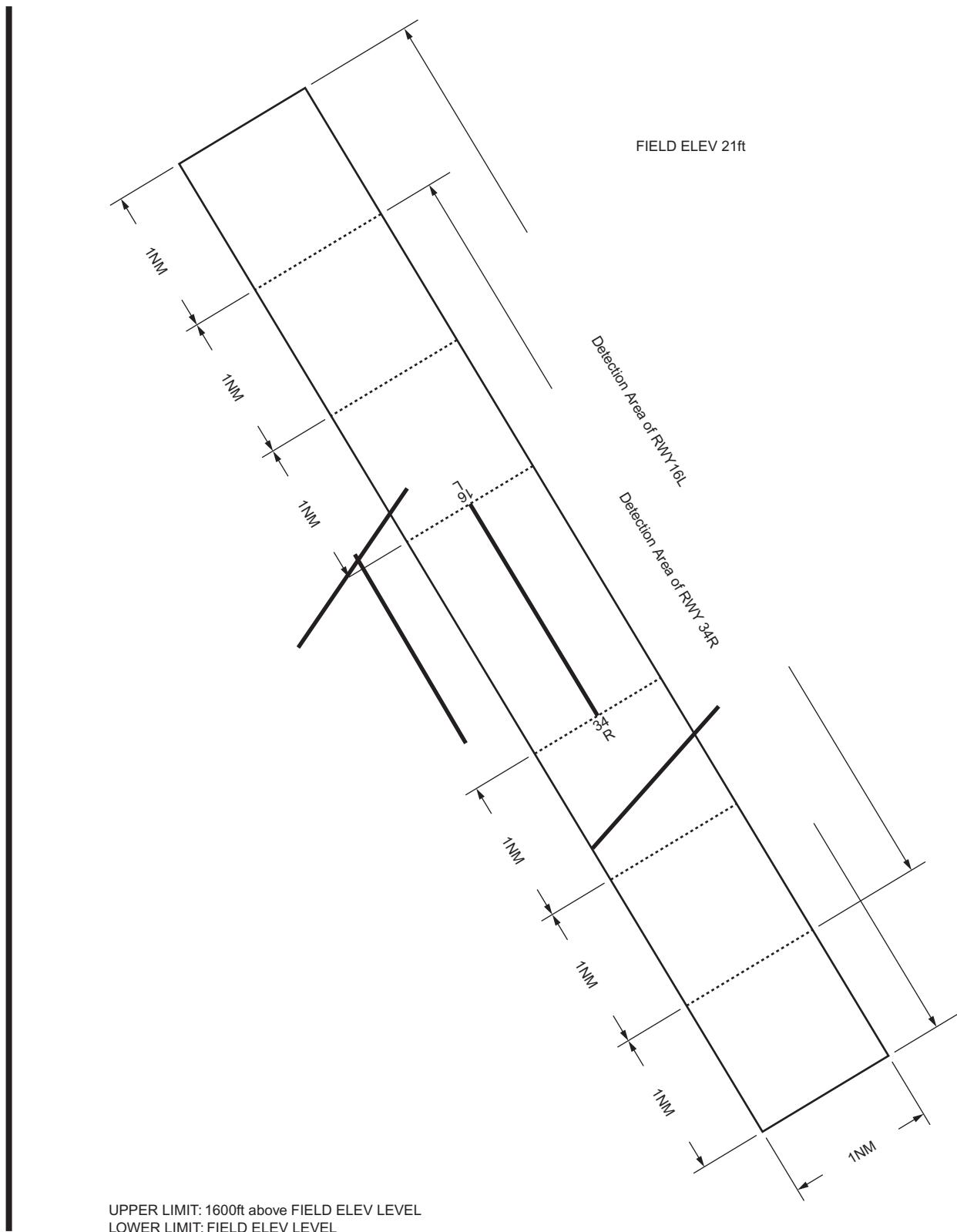
In circling area and at AD

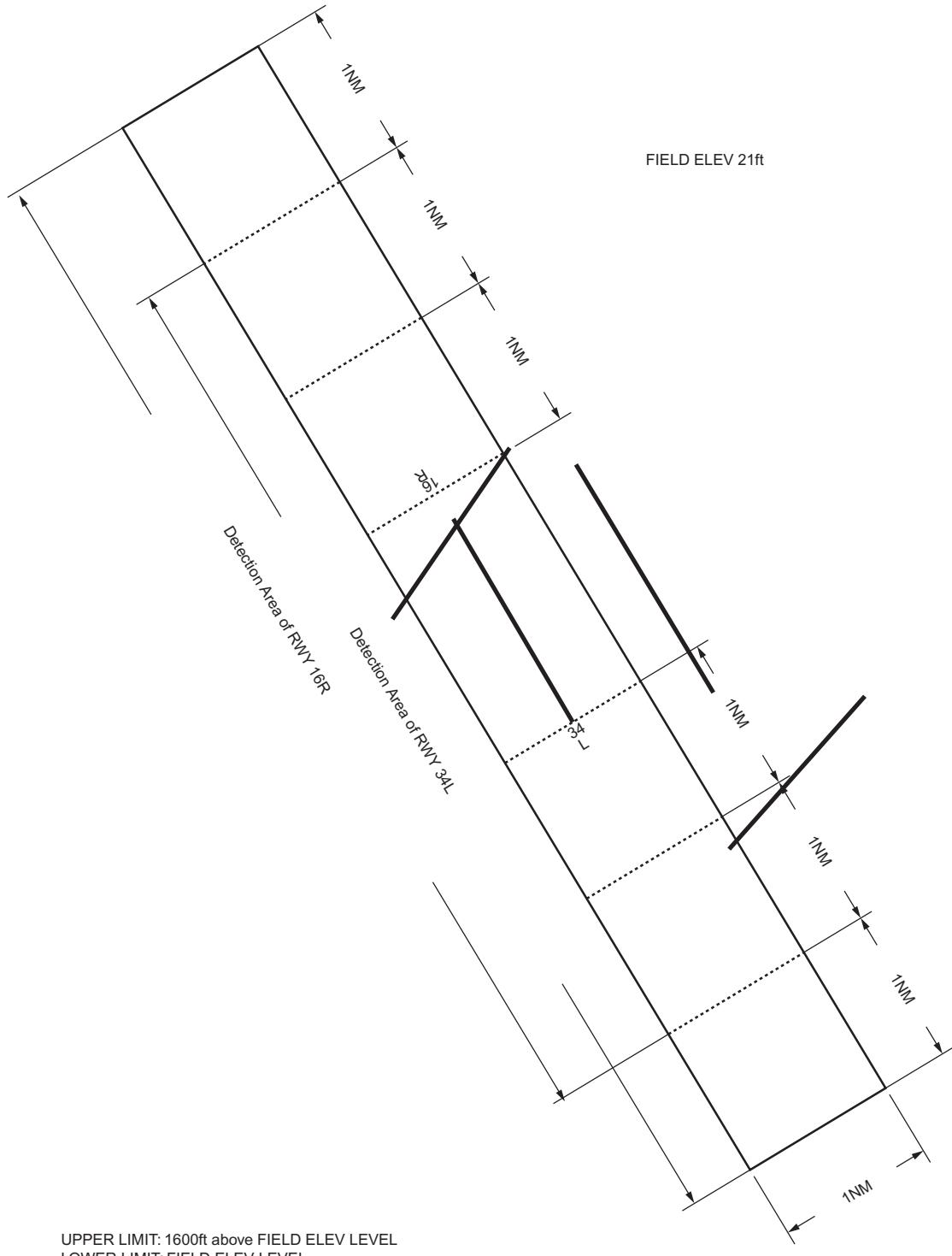
Obstacle type	Coordinates	Elevation	Markings/ LGT	Remarks
Chimney	353107.42N 1394619.09E	177ft	-/LGTD	above the horizontal surface

**RJTT AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

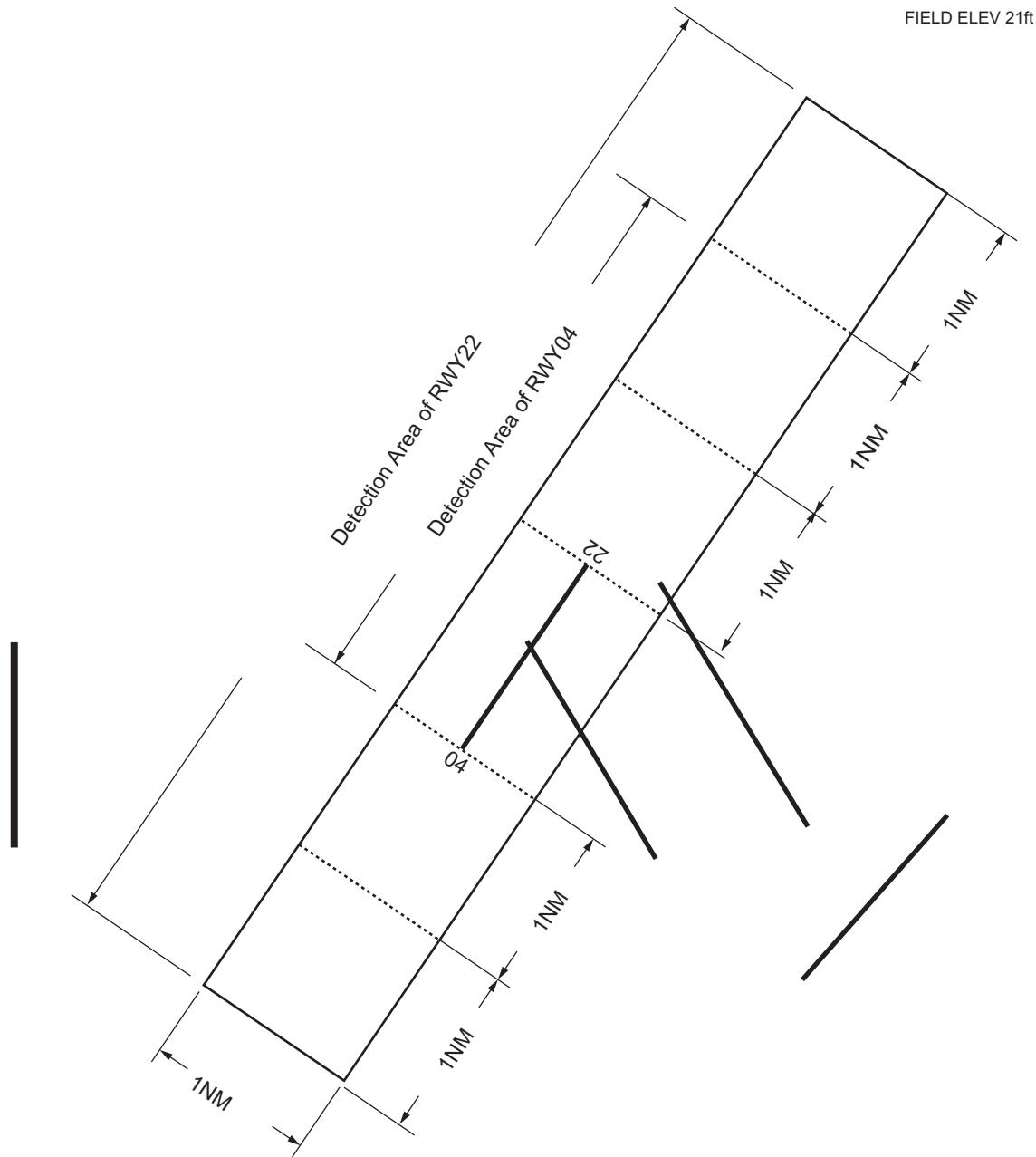
1	Associated MET Office	TOKYO
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	TOKYO 30 Hours
4	Trend forecast Interval of issuance	TREND 30min
5	Briefing/ consultation provided	P, Ja, En
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	S <sub>6</sub> , U <sub>85</sub> , U <sub>7</sub> , U <sub>5</sub> , U <sub>3</sub> , U <sub>25</sub> , U <sub>2/T<sub>r</sub></sub> , P <sub>S</sub> , P <sub>5</sub> , P <sub>3</sub> , P <sub>25</sub> , P <sub>SWE</sub> , P <sub>SWF</sub> , P <sub>SWG</sub> , P <sub>SWI</sub> , P <sub>SWM</sub> , P <sub>SW</sub> (domestic), E, C, W <sub>E</sub> , W <sub>F</sub> , W <sub>G</sub> , W <sub>I</sub> , W, N
8	Supplementary equipment available for providing information	Doppler Radar and Lidars 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 (RWY16L/34R)



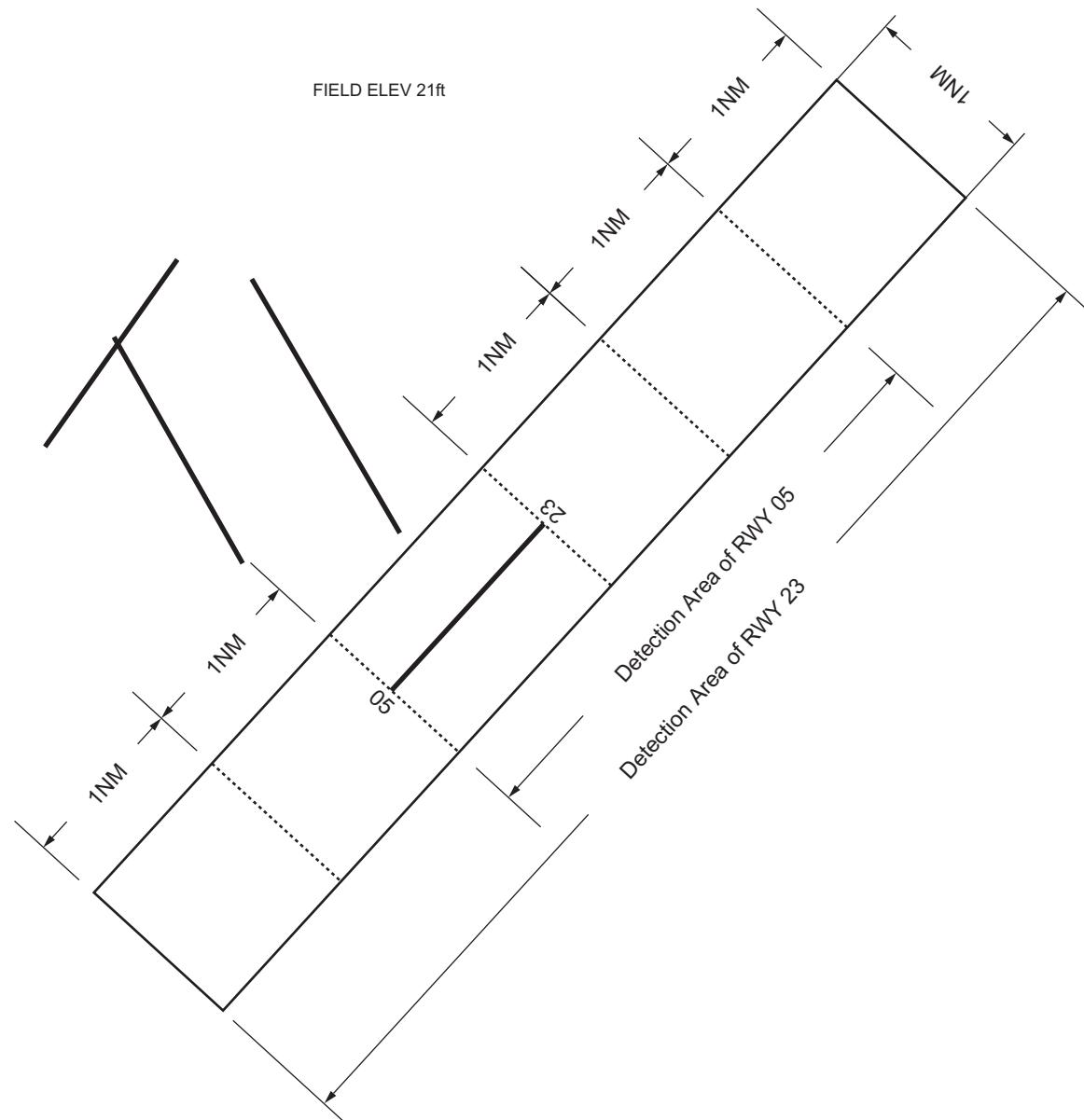
Airspace for the advisory service concerning low level wind shear (RWY16R/34L)

## Airspace for the advisory service concerning low level wind shear (RWY04/22)



UPPER LIMIT: 1600ft above FIELD ELEV LEVEL  
LOWER LIMIT: FIELD ELEV LEVEL

## Airspace for the advisory service concerning low level wind shear (RWY05/23)

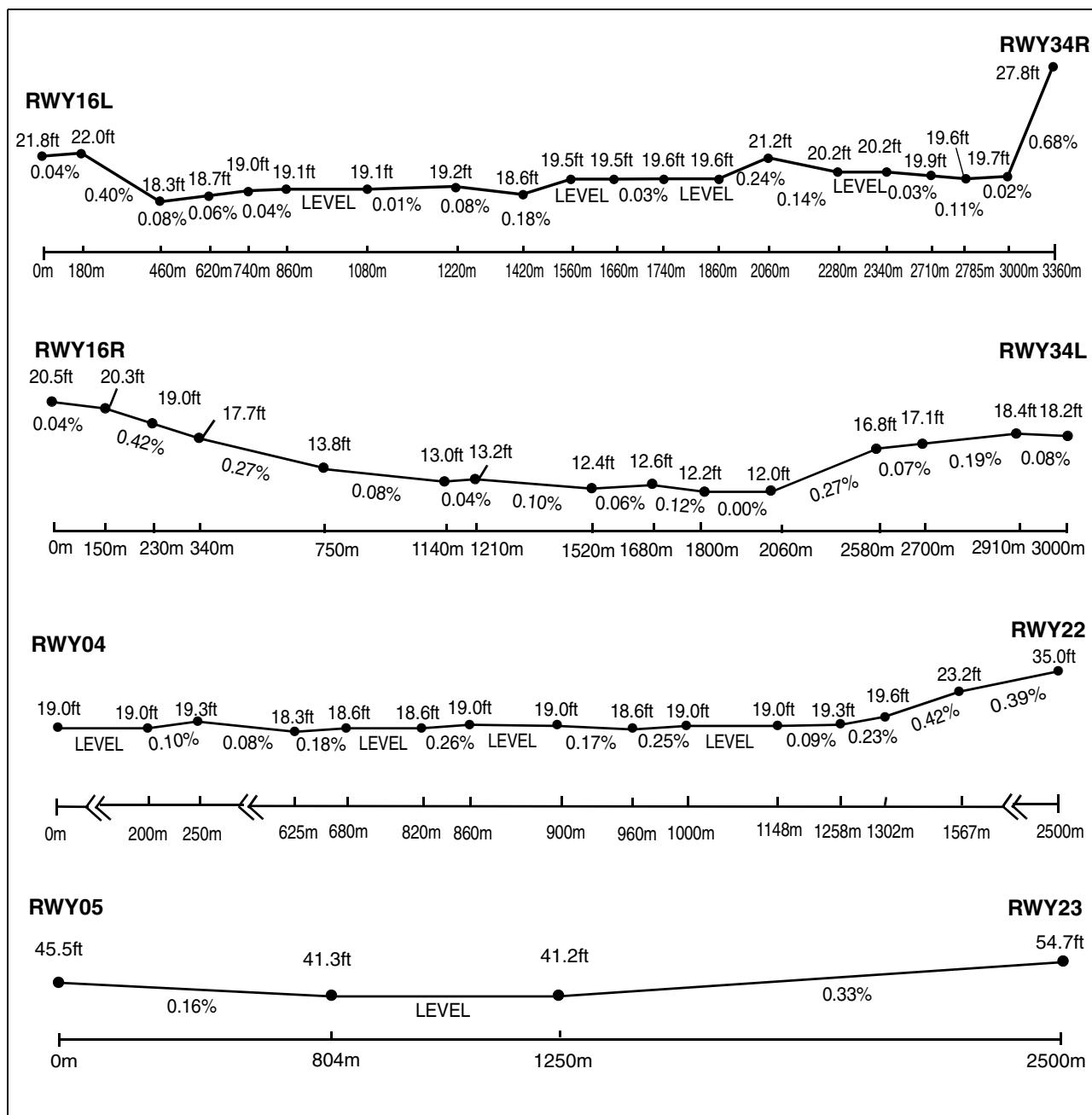


UPPER LIMIT: 1600ft above FIELD ELEV LEVEL  
LOWER LIMIT: FIELD ELEV LEVEL

## RJTT 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
16L	149.88°	3360x60	PCN 95/F/B/X/T Asphalt Concrete	353357.23N 1394711.59E 117.7FT  (Displaced THR) 353346.27N 1394719.34E 117.8FT	THR ELEV : 21.8FT  (Displaced THR) THR ELEV : 19.2FT TDZ ELEV : 19.2FT
34R	329.88°	3360x60	PCN 95/F/B/X/T Asphalt Concrete	353222.90N 1394818.49E 117.1FT  (Displaced THR) 353233.02N 1394811.34E 117.2FT	THR ELEV : 27.8FT  (Displaced THR) THR ELEV : 19.7FT TDZ ELEV : 21.0FT
16R	149.88°	3000x60	PCN85F/B/X/T Asphalt Concrete	353335.95N 1394608.64E 117.9FT  (Displaced THR) 353322.47N 1394618.19E 117.9FT	THR ELEV : 20.5FT  (Displaced THR) THR ELEV : 16.4FT TDZ ELEV : 16.4FT
34L	329.88°	3000x60	PCN 85/F/B/X/T Asphalt Concrete	353211.76N 1394708.41E 117.3FT	THR ELEV : 18.2FT TDZ ELEV : 18.4FT
04	035.01°	2500x60	PCN 85/F/B/X/T Asphalt Concrete	353256.47N 1394540.60E 117.8FT	THR ELEV : 19.0FT TDZ ELEV : 19.3FT
22	215.01°	2500x60	PCN 85/F/B/X/T Asphalt Concrete	353402.88N 1394637.61E 117.9FT	THR ELEV : 35.0FT TDZ ELEV : 35.0FT
05	042.56°	2500x60	PCN 102/F/B/X/T* Asphalt Concrete	353126.41N 1394812.47E 116.9FT	THR ELEV : 45.5FT TDZ ELEV : 45.5FT
23	222.56°	2500x60	PCN 102/F/B/X/T* Asphalt Concrete	353226.15N 1394919.61E 116.9FT	THR ELEV : 54.7FT TDZ ELEV : 54.7FT

Slope of RWY	Strip Dimensions(M)	RESA(Overrun) Dimensions(M)	Arresting System	Remarks
7	10	11	12	14
See below figure	3480x300	150x300		RWY grooving: RWY 16L/34R 3360mx40m RWY 16R/34L 3000mx40m RWY 04/22 2500mx40m RWY 05/23 2500mx40m  *REF AD2.23.7
	3480x300	240x300		
	3120x300	40x(MNM:255 MAX:300)**	EMAS(84.5mx62.8m) *See RJTT AD2.23.8	
	3120x300	240x300		CAUTION : THR of RWY 16L is displaced by 390m inward. In case of landing, the usable length of RWY 16L is 2,970m. In case of take-off, the usable length of RWY 16L is 3,360m. THR of RWY 34R is displaced by 360m inward. In case of landing, the usable length of RWY 34R is 3,000m. In case of take-off, the usable length of RWY 34R is 3,360m.
	2620x300	186x(MNM:210 MAX:300)**		
	2620x300	240x300		THR of RWY 16R is displaced by 480m inward. In case of landing, the usable length of RWY 16R is 2,520m. In case of take-off, the usable length of RWY 16R is 3,000m. Usable length of RWY 34L is 3,000m for both landing and take-off.
	2620x300	240x300		
	2620x300	240x300	**For detail, ask airport administrator	

**RJTT AD 2.13 DECLARED DISTANCES**

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
16L	3360	3360	3360	2970	Nil
34R	3360	3360	3360	3000	Nil
16R	3000	3000	3000	2520	Nil
34L	3000	3000	3000	3000	Nil
04	2500	2500	2500	2500	Nil
22	2500	2500	2500	2500	Nil
05	2500	2500	2500	-	Not usable for LDG
23	2500	2500	2500	2500	Nil

## RJTT 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
16L	PALS 900M LIH	Green Green	PAPI 3.0°/LEFT 412M 65FT	900M	3360M 15M Coded color (White/Red) LIH	3360M 30M Coded color (White/Yellow/Red) LIH	Red	Nil (*1)
34R	PALS (CAT III) 900M LIH	Green Green	PAPI 3.0°/RIGHT 416M 66FT	900M	3360M 15M Coded color (White/Red) LIH	3360M 30M Coded color (White/Yellow/Red) LIH	Red	Nil (*1)
16R	PALS 900M LIH	Green Green	PAPI 3.0°/LEFT 434M 65FT	900M	3000M 30M Coded color (White/Red) LIH	3000M 60M Coded color (White/Yellow/Red) LIH	Red	Nil (*1)
34L	PALS (CAT I) 900M LIH	Green Green	PAPI 3.0°/LEFT 449M 66FT	900M	3000M 30M Coded color (White/Red) LIH	3000M 60M Coded color (White/Yellow) LIH	Red	Nil (*1)
04	-	Green	PAPI <sup>(*)2</sup> - 3.0°/LEFT 369M 61FT	-	2500M 30M Coded color (White/Red) LIH	2500M 60M Coded color (White/Yellow) LIH	Red	Nil (*1)
22	PALS (CAT I) 900M LIH	Green Green	PAPI 3.0°/LEFT 438M 63FT	900M	2500M 30M Coded color (White/Red) LIH	2500M 60M Coded color (White/Yellow) LIH	Red	Nil (*1)
05	-	Green	-	-	2500M 30M Coded color (White/Red) LIH	2500M 30M Coded color (White/Yellow) LIH	Red	Nil (*1)
23	PALS (CAT I) 870M LIH	Green Green	PAPI 3.0°/LEFT 452M 66FT	900M	2500M 30M Coded color (White/Red) LIH	2500M 30M Coded color (White/Yellow) LIH	Red	Nil (*1)
Remarks								
10								
Overrun area edge LGT(LEN:60M(RWY16L,34R,34L,04,22, 05, 23) 77M(RWY16R), Color:Red) (*1) CGL for RWY 16L APCH guidance LGT for RWY16L,16R RWY THR ID LGT for RWY04, RWY22 and RWY16L THR(Color:White) Rapid exit taxiway indicator lights prior to exit to TWY C10, D3 and D5(Color:Yellow) Usable area of PAPI for RWY04 is within 2.4NM FM RWY04 THR <sup>(*)2</sup>								

## RJTT AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 353238N/1394557E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI:Nil Anemometer: RWY16L: 358m from RWY16L THR, LGTD RWY34R: 710m from RWY34R THR, LGTD RWY16R: 226m from RWY16R THR, LGTD RWY34L: 270m from RWY34L THR, LGTD RWY04: 273m from RWY04 THR, LGTD RWY22: 400m from RWY22 THR, LGTD RWY05: 381m from RWY05 THR, LGTD RWY23: 319m from RWY23 THR, LGTD
3	TWY edge and center line lighting	TWY edge LGT: Blue TWY CL LGT: ALTN Green/Yellow FM RWY leaving report point, other Green
4	Secondary power supply / switch-over time	Within 1 sec: PALS(RWY34R), PAPI(RWY16L/34R), RCLL(RWY16L/34R), RTZL(RWY34R), RENL(RWY16L/34R), RTHL(RWY16L/34R), WBAR(RWY16L/34R), Overrun area edge LGT(RWY16L/34R), Stop Bar LGT  Within 15 sec : PALS(RWY16L/16R/34L/22/23), CGL(RWY16L), PAPI(RWY16R/34L/04/22/23), REDL(RWY16L/34R/16R/34L/04/22/05/23), RCLL(RWY16R/34L/04/22/05/23), RTZL(RWY16L/16R/34L/22/23), RENL(RWY16R/34L/04/22/05/23), RTHL(RWY16R/34L/04/22/05/23), WBAR(RWY16R/34L/22/23), RWY THR ID LGT(RWY16L/04/22), Overrun area edge LGT(RWY16R/34L/04/22/05/23), RWY guard LGT, ABN, TWY edge LGT, TWY CL LGT, Intermediate Holding Position Light, Rapid exit taxiway indicator lights, Taxiing guidance sign, WDI LGT, Variable Message Signs
5	Remarks	WDI LGT

## RJTT AD 2.16 HELICOPTER LANDING AREA

Nil
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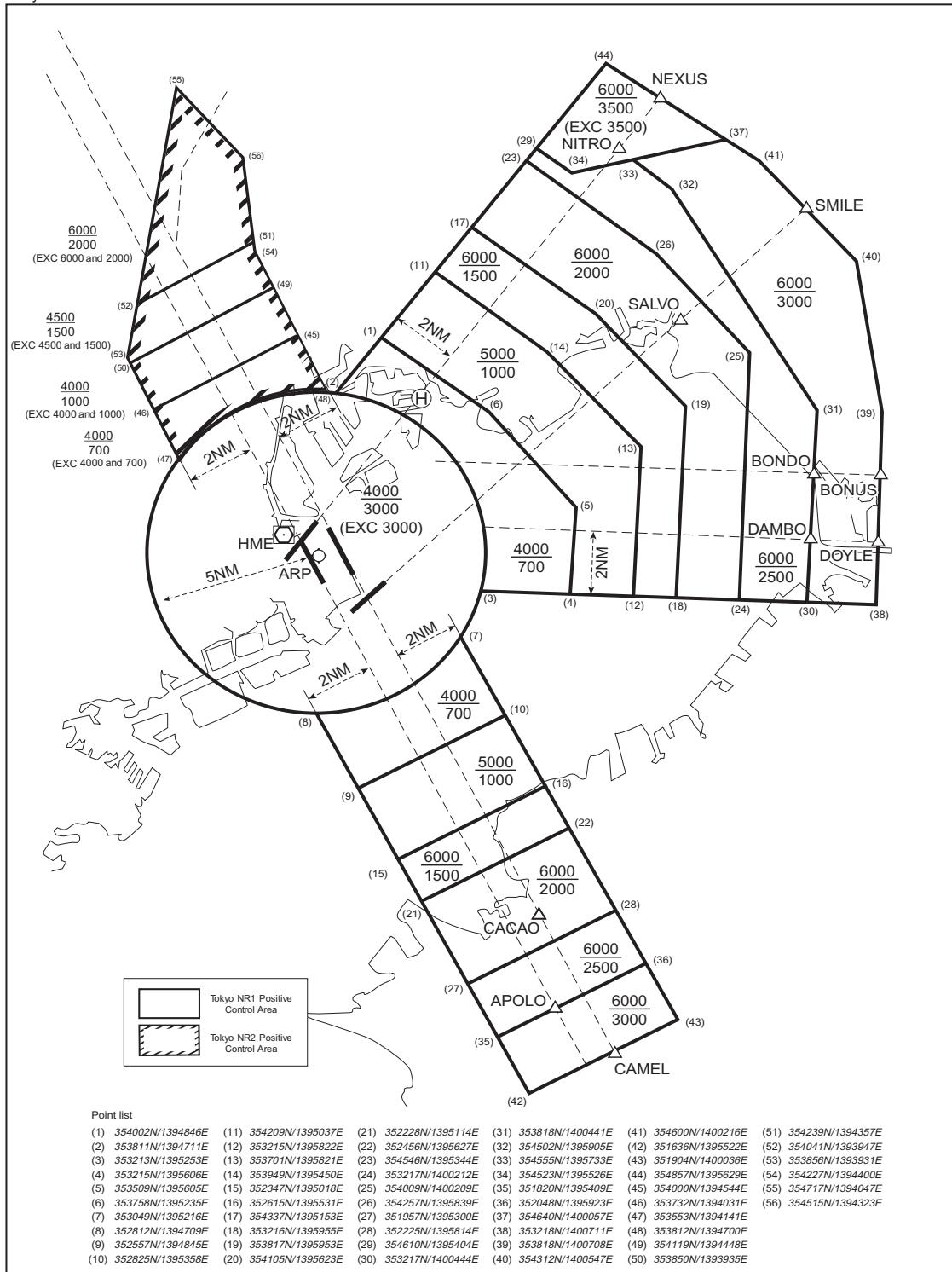
## RJTT AD 2.17 ATS AIRSPACE

Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
	1	2	3	4	6
TOKYO CTR	Area defined as follows. Area within a radius of 5nm of TOKYO INTERNATIONAL ARP (35°33'N/130°47'E).	3 000 or below (900)	D	TOKYO TOWER En	
TOKYO PCA	SEE RJTT ATTACHED CHART		C		
TOKYO ACA	SEE RJTT ATTACHED CHART		E		
TOKYO TCA	SEE RJTT ATTACHED CHART		E		

**東京特別管制区**  
**Tokyo Positive Control Area**

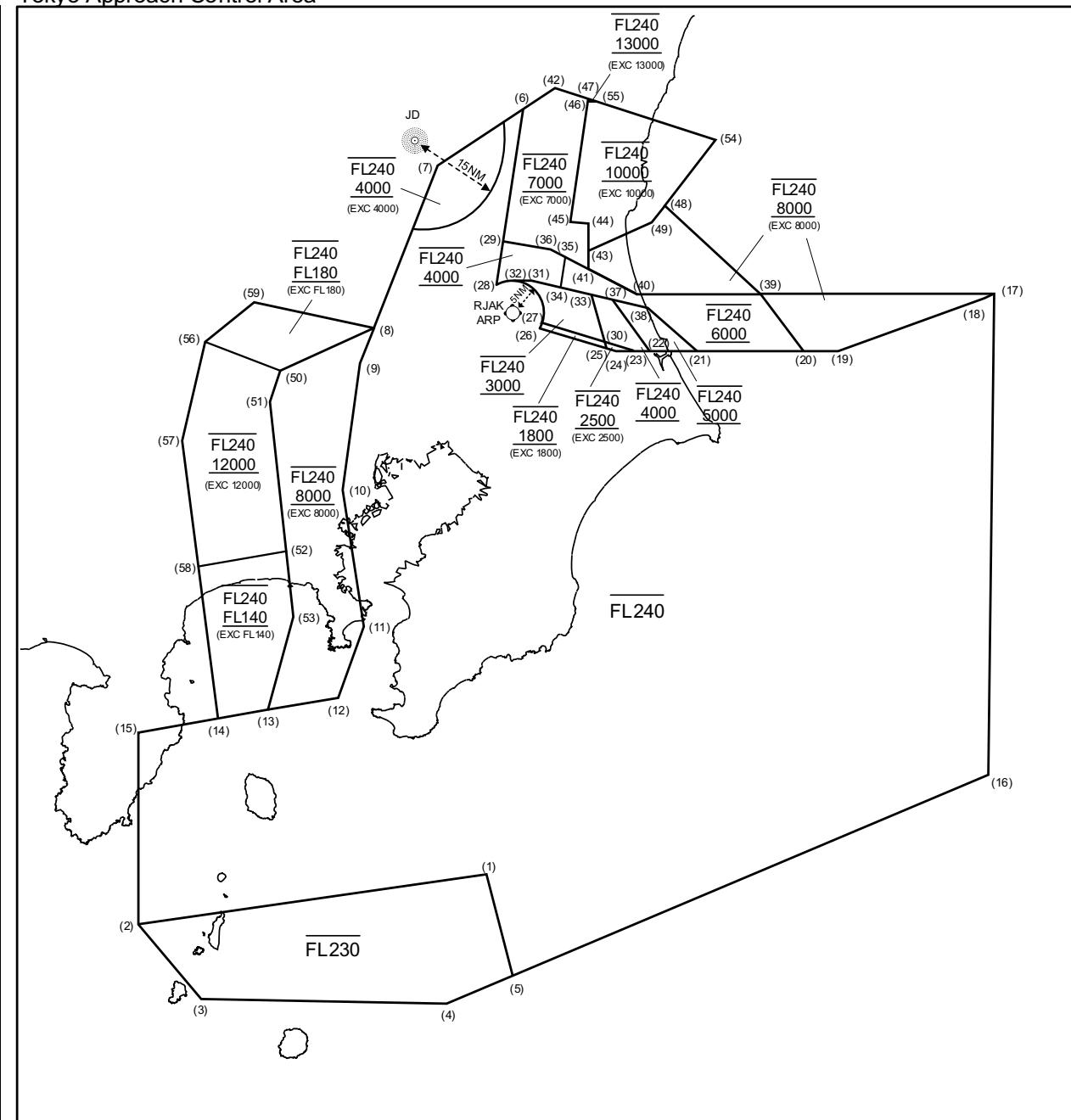
NAME	LATERAL LIMITS	UPPER LIMIT (AMSL) ----- LOWER LIMIT (AMSL) M(ft)	UNIT PROVIDING SERVICE	REMARKS
1	2	3	4	5
Tokyo	下図に示される区域 The area shown below (1) 東京第一特別管制区 Tokyo NR1 Positive control Area (2) 東京第二特別管制区 Tokyo NR2 Positive control Area		Primary Tokyo APP 119.1MHz 119.7MHz  Secondary Tokyo Tower 118.1MHz 124.35MHz	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なければならない。なお、東京第一特別管制区にあっては24時間、東京第二特別管制区にあっては0600UTCから1000UTCの間とする。 Pilot requiring transit of Tokyo NR1/NR2 Positive Control Area must call Tokyo Approach or Tower prior to the point of entry to provide aircraft identification, position, altitude and intention. This rule is enforced 24 hours a day for Tokyo NR1 Positive Control Area and between 0600UTC and 1000UTC for Tokyo NR2 Positive Control Area.

Tokyo Positive Control Area



東京進入管制区

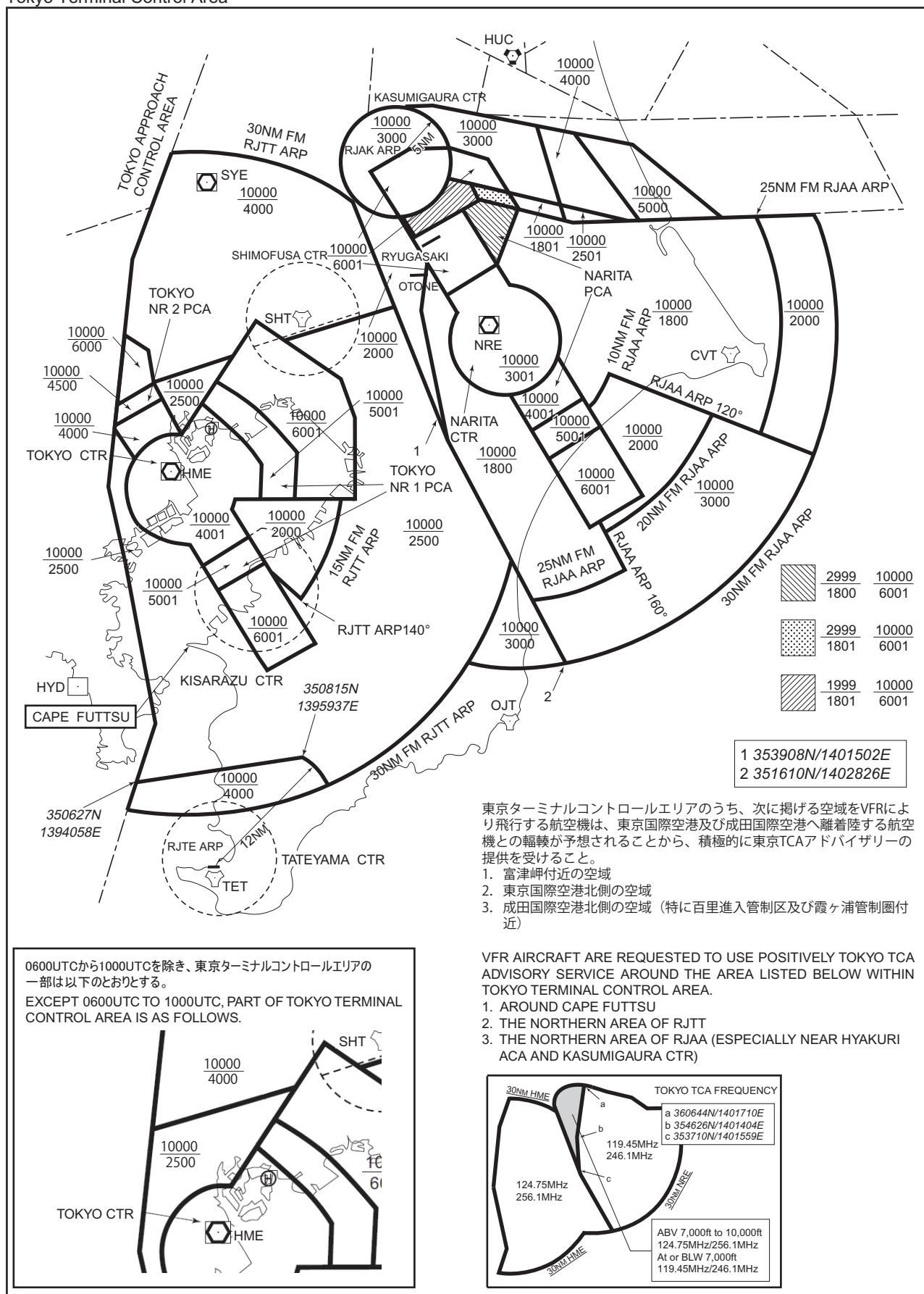
Tokyo Approach Control Area



Point list

- |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| (1) 343224N/1400724E  | (18) 360419N/1414409E | (35) 361053N/1402147E | (52) 352343N/1392749E |
| (2) 342337N/1390033E  | (19) 355600N/1411534E | (36) 361204N/1401853E | (53) 351301N/1392926E |
| (3) 341153N/1391255E  | (20) 355600N/1410841E | (37) 360407N/1403112E | (54) 362938N/1405126E |
| (4) 341141N/1395954E  | (21) 355600N/1404746E | (38) 360250N/1403803E | (55) 363540N/1402812E |
| (5) 341614N/1401235E  | (22) 355600N/1403828E | (39) 360503N/1410017E | (56) 355626N/1390939E |
| (6) 363429N/1401317E  | (23) 355600N/1403535E | (40) 360500N/1403600E | (57) 354316N/1390433E |
| (7) 362515N/1395633E  | (24) 355600N/1403154E | (41) 360858N/1402626E | (58) 352134N/1390812E |
| (8) 355918N/1394424E  | (25) 355626N/1403002E | (42) 363752N/1401937E | (59) 360223N/1391842E |
| (9) 355339N/1394146E  | (26) 355930N/1401651E | (43) 361152N/1402623E |                       |
| (10) 353325N/1393840E | (27) 360023N/1401723E | (44) 361619N/1402619E |                       |
| (11) 351136N/1394310E | (28) 360623N/1400824E | (45) 361628N/1402245E |                       |
| (12) 350019N/1393818E | (29) 361321N/1400930E | (46) 363547N/1402606E |                       |
| (13) 345811N/1392443E | (30) 355732N/1402939E | (47) 363611N/1402610E |                       |
| (14) 345614N/1391225E | (31) 360705N/1401514E | (48) 361913N/1404125E |                       |
| (15) 345412N/1385949E | (32) 360705N/1401134E | (49) 361630N/1403849E |                       |
| (16) 344816N/1414417E | (33) 360453N/1402703E | (50) 355218N/1392608E |                       |
| (17) 360500N/1414604E | (34) 360602N/1402056E | (51) 354715N/1392411E |                       |

東京ターミナルコントロールエリア  
Tokyo Terminal Control Area



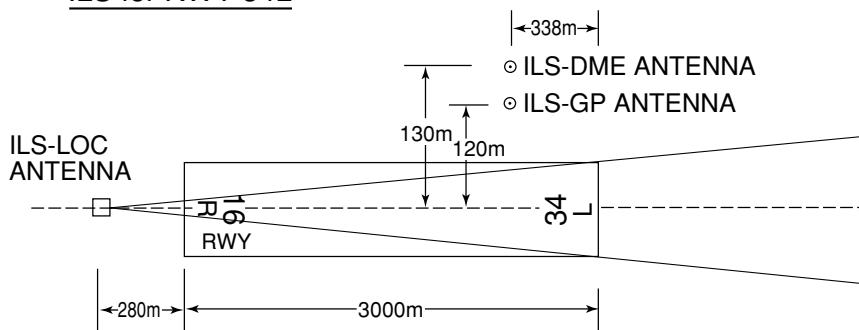
## RJTT AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Tokyo Approach	119.1MHz(1) 119.4MHz 119.65MHz 119.7MHz 125.4MHz 232.2MHz 261.2MHz 121.5MHz(E) 243.0MHz(E)	121.275MHz 124.4MHz 125.2MHz 125.8MHz 127.7MHz 225.65MHz	H24 (1)Primary
ASR	Tokyo Radar	124.0MHz 126.5MHz 236.8MHz 261.2MHz 295.9MHz 121.5MHz(E) 243.0MHz(E) 120.2MHz	119.025MHz 120.9MHz 123.6MHz 125.1MHz 283.4MHz	H24
DEP	Tokyo Departure	126.0MHz(1) 120.8MHz 127.5MHz 127.6MHz 121.5MHz(E) 243.0MHz(E) 124.2MHz 119.6MHz 120.6MHz 125.525MHz		H24
TCA	Tokyo TCA	124.75MHz(1) 119.7MHz 256.1MHz  119.45MHz 246.1MHz		2300 - 1200  2300 - 1030
TWR	Tokyo Tower	118.1MHz(1) 118.575MHz 118.725MHz 124.35MHz 118.8MHz 126.2MHz 236.8MHz 121.5MHz(E) 243.0MHz(E)		H24
GND	Tokyo Ground	118.225MHz 121.625MHz 121.7MHz 121.975MHz 122.075MHz		H24 See RJTT AD2.20.1.2 (14) "GROUND CONTROL Frequency"
DLVRY	Tokyo Delivery	121.825MHz(1) 121.875MHz		H24
ATIS	Tokyo INTL Airport	128.8MHz		H24

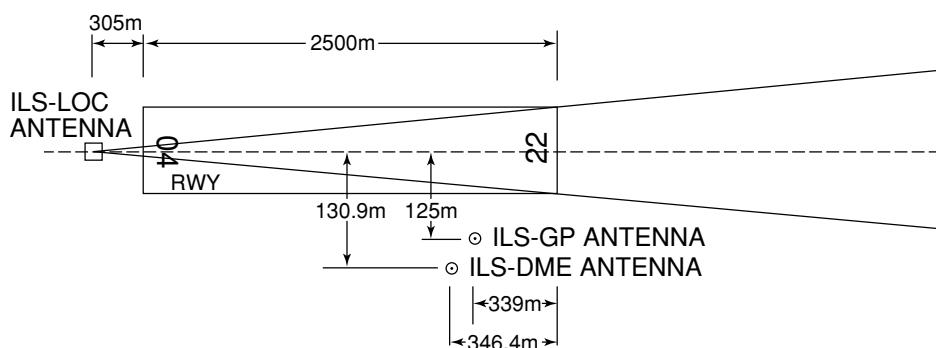
**RJTT AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Type of aid	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR	HME	112.2MHz	H24	353344.34N/ 1394540.14E		VOR Unusable: 1) 230° -240° beyond 15nm BLW 8000ft. 2) 240° -260° beyond 10nm BLW 8000ft. VOR/DME Unusable: 1) 210° -230° beyond 20nm BLW 3000ft. 2) 330° -340° beyond 30nm BLW 3000ft. 3) 340° -020° beyond 20nm BLW 3000ft.
DME	HME	1020MHz (CH-59X)	H24	353344.34N/ 1394540.14E	63ft	
ILS-LOC 16L	IOC	111.95MHz	H24	353217.43N/ 1394822.37E		LOC: 195m(640ft) away FM RWY34R THR, BRG(MAG) 157.41°.
ILS-GP 16L	-	330.95MHz	H24	353335.57N/ 1394721.45E		GP: 312m(1024ft) inside FM RWY16L Displaced THR, 120m(394ft) SW of RCL. HGT of ILS Ref datum 16.3m(53ft). GP angle 3.0°.
ILS-DME 16L	IOC	1143MHz (CH-56Y)	H24	353335.08N/ 1394721.61E	34ft	DME: 320m(1050ft) inside FM RWY16L Displaced THR, 131.5m(431ft) SW of RCL.
ILS-LOC 34R	ITC	108.9MHz	H24	353403.81N/ 1394706.89E		LOC: (ITC) 235m(771ft) away FM RWY16L THR, BRG (MAG) 337°.
ILS-GP 34R	-	329.3MHz	H24	353243.92N/ 1394809.36E		GP: 316m(1037ft) inside FM RWY34R Displaced THR, 126m(413ft) NE of RCL. HGT of ILS Ref datum 16.5m(54ft). GP angle 3.0°.
ILS-DME 34R	ITC	987MHz (CH-26X)	H24	353244.02N/ 1394809.72E	35ft	DME: 314m(1030ft) inside FM RWY34R Displaced THR, 135m(443ft) NE of RCL.
IM 34R	-	75MHz	H24	353220.45N/ 1394820.26E		IM: 446m(1463ft) away FM RWY34R Displaced THR.
ILS-LOC 16R	ITA	111.55MHz	H24	353206.29N/ 1394712.30E		LOC: 195m(640ft) away FM RWY34L THR, BRG(MAG) 157.41°.
ILS-GP 16R	-	332.75MHz	H24	353315.14N/ 1394628.93E		GP: 326m(1070ft) inside FM RWY16R Displaced THR, 120m(394ft) NE of RCL. HGT of ILS Ref datum 16.3m(53ft). GP angle 3.0°.
ILS-DME 16R	ITA	1139MHz (CH-52Y)	H24	353315.97N/ 1394629.22E	31ft	DME: 334m(1096ft) inside FM RWY16L Displaced THR, 125m(410ft) NE of RCL.

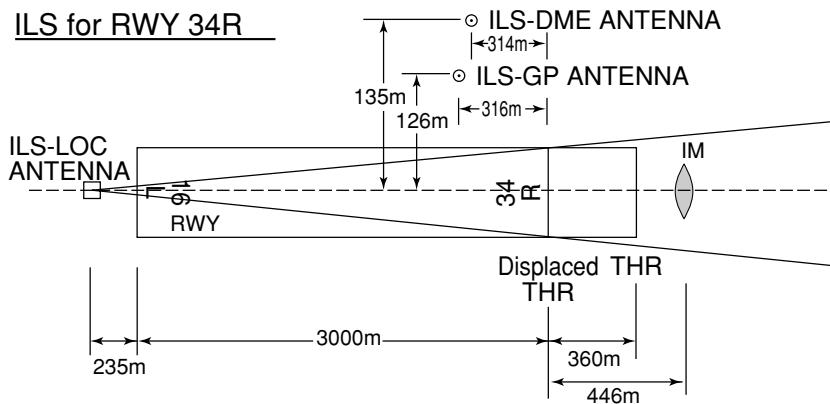
Type of aid	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS-LOC 34L	IHA	111.7MHz	H24	353343.81N/ 1394603.06E		LOC: (IHA) 280m(919ft) away FM RWY 16R THR, BRG(MAG)337°.
ILS-GP 34L	-	333.5MHz	H24	353223.19N/ 1394705.78E		GP: 338m(1109ft) inside FM RWY34L THR ,120m(394ft) NE of RCL. HGT of ILS Ref datum 16.5m (54ft). GP angle 3.0°.
ILS-DME 34L	IHA	1015MHz (CH-54X)	H24	353223.33N/ 1394706.14E	43ft	DME: 338m(1109ft) inside FM RWY34L THR, 130m (427ft) NE of RCL. DME Unusable: beyond 15° E side of LOC course.
ILS-LOC 22	IAD	108.1MHz	H24	353248.36N/ 1394533.62E		LOC: (IAD)305m (1001ft) away FM RWY04 THR, BRG(MAG) 222°.
ILS-GP 22	-	334.7MHz	H24	353351.52N/ 1394633.91E		GP: 339m(1112ft) inside FM RWY22 THR, 125m (410ft) S of RCL. HGT of ILS Ref datum 16.5m(54ft). GP angle 3.0°.
ILS-DME 22	IAD	979MHz (CH-18X)	H24	353351.23N/ 1394633.96E	44ft	DME: 346.4m(1137ft) inside FM RWY22 THR, 130.9m(429ft) S of RCL.
LDA-LOC 22	IKL	110.1MHz	H24	353613.77N/ 1394908.33E		LOC: (IKL) 5481m(17983ft) outside FM RWY22, 788m(2585ft) S of RCL, BRG(MAG) 277°.
LDA-DME 22	IKL	999MHz (CH-38X)	H24	353612.96N/ 1394908.33E	122ft	DME: 5460m(17914ft) outside FM RWY22, 803m(2635ft) S of RCL.
ILS-LOC 23	ITD	110.5MHz	H24	353151.24N/ 1394835.14E		LOC: (ITD) 950m(3117ft) inside FM RWY05 THR, 97m(318ft) N of RCL. LOC off-set angle 2.0°, BRG(MAG)232°.
ILS-GP 23	-	329.6MHz	H24	353220.86N/ 1394906.93E		GP: 336m(1102ft) inside FM RWY23 THR ,125m(410ft) N of RCL. HGT of ILS Ref datum 16.5m (54ft). GP angle 3.0°.
ILS-DME 23	ITD	1003MHz (CH-42X)	H24	353221.08N/ 1394906.64E	67ft	DME: 336m(1102ft) inside FM RWY23 THR, 135m (443ft) NE of RCL.
LDA-LOC 23	ITL	108.5MHz	H24	353410.37N/ 1394656.13E		LOC: (ITL) 79m(259ft) inside FM RWY23, 4834m(15860ft) N of RCL, BRG(MAG) 277°.
LDA-DME 23	ITL	983MHz (CH-22X)	H24	353411.11N/ 1394656.12E	34ft	DME: 62m(203ft) inside FM RWY23, 4849m(15910ft) N of RCL.
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based.

ILS for RWY 34L

REMARKS : 1. LOC beam BRG (MAG)                    337°  
                   2. HGT of ILS REF datum                16.5m(54ft)  
                   3. GP Angle                                3.0°  
                   4. ELEV of ILS-DME                      13.0m(43ft)

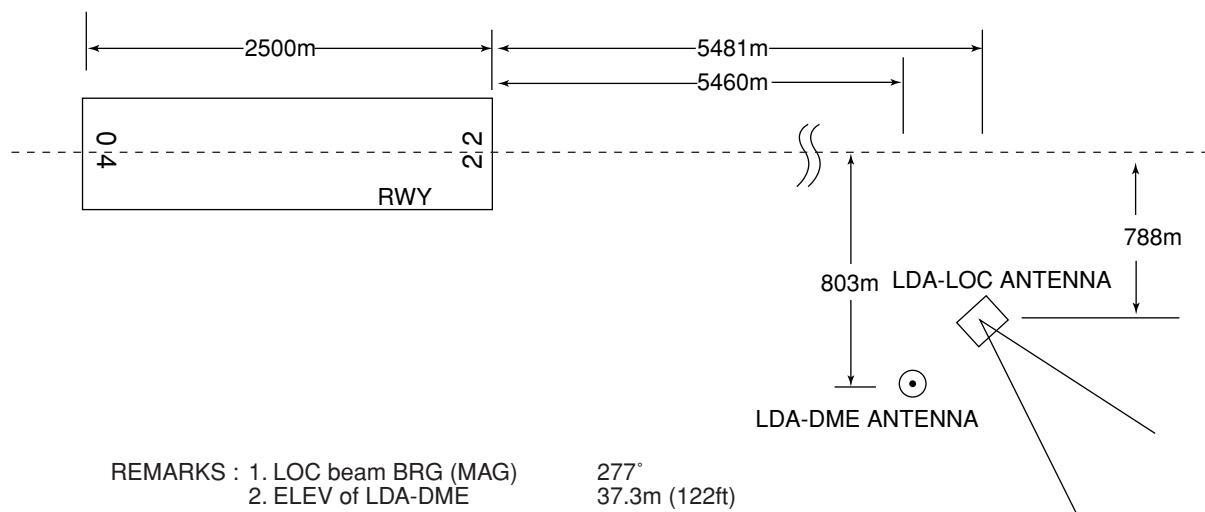
ILS for RWY 22

REMARKS : 1.LOC beam BRG(MAG)                    222°  
                   2.HGT of ILS REF datum                16.5m(54ft)  
                   3.GP Angle                                3.0°  
                   4.ELEV of ILS-DME                      13.5m(44ft)

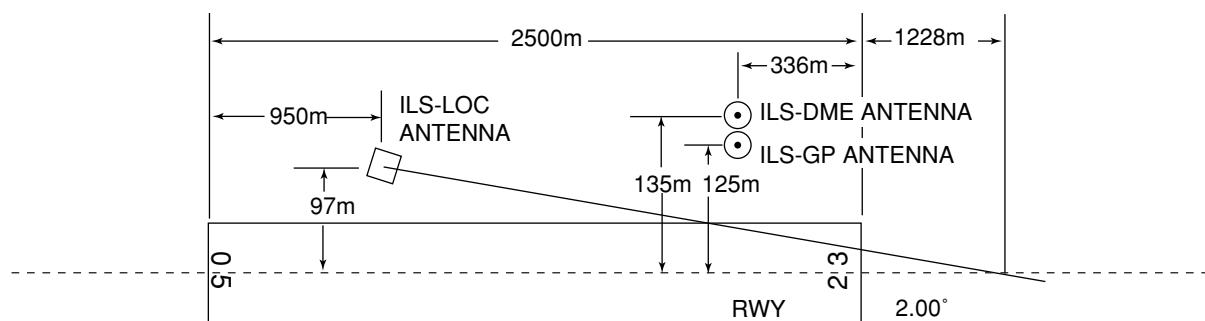
ILS for RWY 34R

REMARKS : 1.LOC BEAM BRG(MAG)                    337°  
                   2.HGT of ILS REF datum                16.5m(54ft)  
                   3.GP Angle                                3.0°  
                   4.ELEV of ILS-DME                      10.6m(35ft)

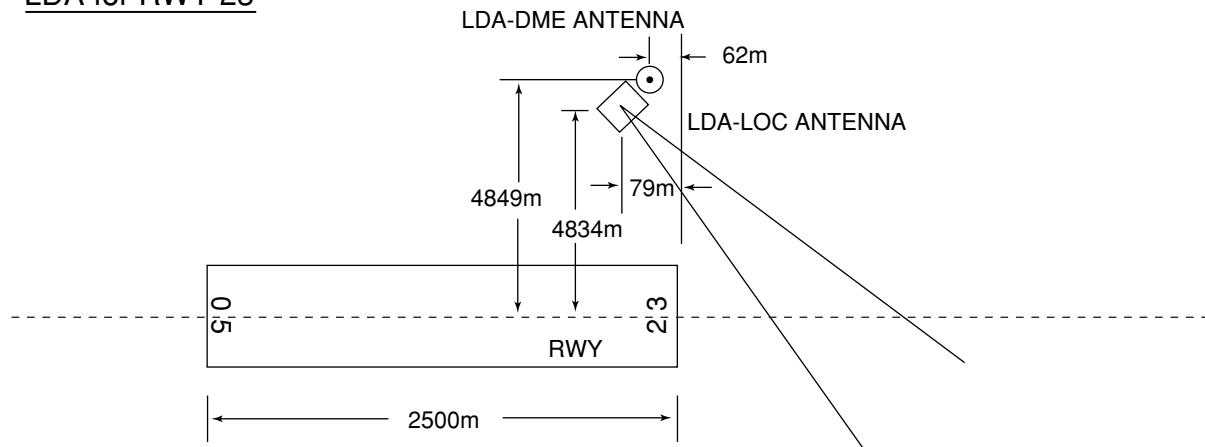
### LDA for RWY 22

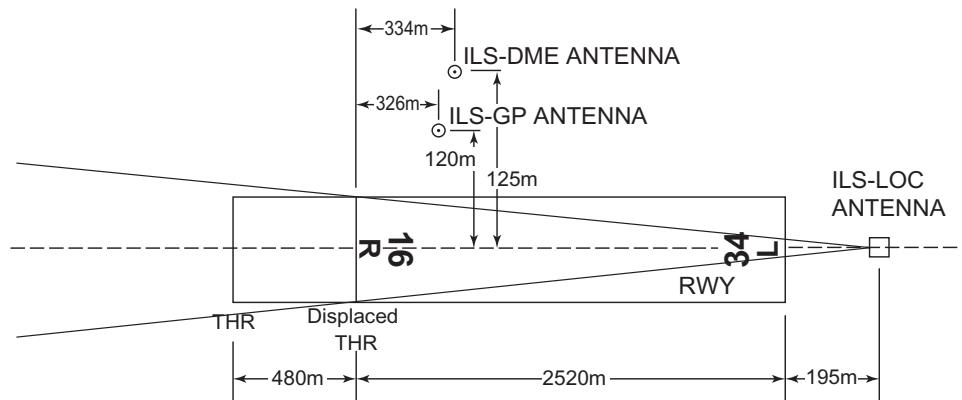


### ILS for RWY 23

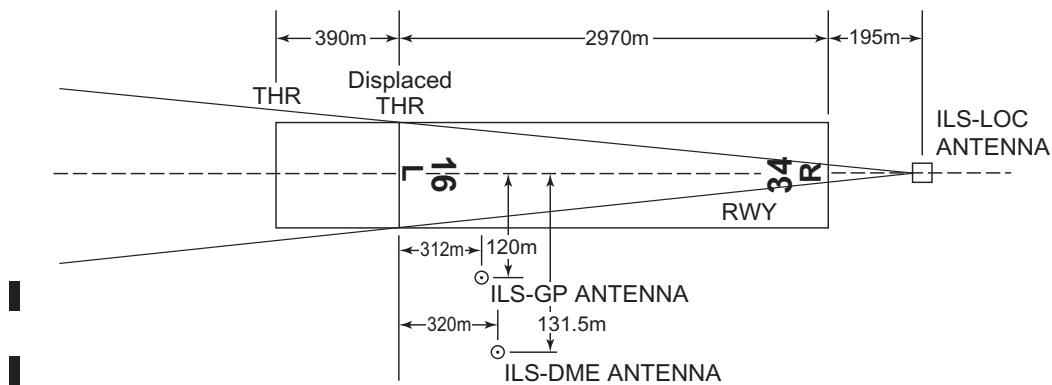


### LDA for RWY 23



ILS for RWY 16R

REMARKS : 1. LOC beam BRG (MAG)       $157.41^\circ$   
           2. HGT of ILS REF datum      16.3m(53ft)  
           3. GP Angle       $3.0^\circ$   
           4. ELEV of ILS-DME      9.4m(31ft)

ILS for RWY 16L

REMARKS : 1. LOC beam BRG (MAG)       $157.41^\circ$   
           2. HGT of ILS REF datum      16.3m(53ft)  
           3. GP Angle       $3.0^\circ$   
           4. ELEV of ILS-DME      10.1m(34ft)

**RJTT AD 2.20 LOCAL TRAFFIC REGULATIONS**

## 1. Airport regulations

## 1.1 Procedural Speed and Speedy Turn Off Procedure

In order to reduce runway occupancy time with the smooth traffic flow based on safety, arriving aircraft should operate as follows.

## (1)Procedural Speed (for IFR)

(a)Unless otherwise instructed by ATC, arriving aircraft should cross each points at the speed listed below.

Approach	Point	Procedural Speed
ILS Z RWY34L LOC Z RWY34L	IHA 10.0DME	180 kt (IAS)
	IHA 5.0DME	160 kt (IAS)
ILS X RWY34L	KAIHO	180 kt (IAS)
	ALLIE	160 kt (IAS)
ILS Z RWY34R LOC Z RWY34R	ITC 10.0DME	180 kt (IAS)
	ITC 5.0DME	160 kt (IAS)
ILS RWY22 LOC RWY22	IAD 10.0DME	180 kt (IAS)
	IAD 5.0DME	160 kt (IAS)
LDA Z RWY22 LDA X RWY22 LDA W RWY22	IKL 8.0DME	180 kt (IAS)
	IKL 3.0DME	160 kt (IAS)
ILS Z RWY23 LOC Z RWY23	ITD 10.0DME	180 kt (IAS)
	ITD 5.0DME	160 kt (IAS)
LDA Z RWY23 LDA X RWY23 LDA W RWY23	ITL 12.0DME	180 kt (IAS)
	ITL 7.0DME	160 kt (IAS)
ILS RWY16R	ITA 10.0DME	180 kt (IAS)
	ITA 5.0DME	160 kt (IAS)
RNAV RWY16R	10.2NM from THR	170 kt (IAS)
ILS RWY16L	IOC 10.0DME	180 kt (IAS)
	IOC 5.0DME	160 kt (IAS)
RNAV RWY16L	9.2NM from THR	170 kt (IAS)

## (b)

1)When speed adjustment is made after approach clearance issued, ATC will instruct to comply with Procedural Speed by the phrase as below instead of "RESUME PUBLISHED SPEED (ref. ENR1.6.1.8.7)".

(e.g.) COMPLY WITH PROCEDURAL SPEED.

2)Pilots should advise ATC when unable to comply with Procedural Speed due to an operational or a performance reason.

(e.g.) UNABLE TO COMPLY WITH PROCEDURAL SPEED ([number]KNOTS).

3)Pilots will be informed by ATC when there is no need to comply with Procedural Speed.

(e.g.) PROCEDURAL SPEED ([number]KNOTS) IS NOT REQUIRED.

(e.g.) MAINTAIN PROCEDURAL SPEED OR GREATER.

## (2) Speedy Turn Off Procedure

(a)The exit taxiways, as a rule, from which arriving aircraft should plan to vacate the runway are listed below.

(b)Pilot should vacate the runway for which the nearest side of the arriving spot.

RWY	EXIT TAXIWAY	DISTANCE FROM THRESHOLD (m/ft)	REMARKS
34L	A10	1,500/4,920	for Terminal 1 and Terminal 2*
	A12	2,000/6,560	
	L10	1,320/4,330	for Terminal 3 and "N" Area*
	L12	1,800/5,900	
	L13	2,080/6,820	
16R	A5	1,530/5,020	for Terminal 1 and Terminal 2*
	A2	2,040/6,690	
	L5	1,500/4,920	for Terminal 3 and "N" Area*
34R	C9	1,290/4,230	
	C10	1,670/5,470	
	C11	2,120/6,950	
16L	C7	1,390/4,570	
	C6	1,710/5,640	
	C4	2,000/6,560	
22	B8	1,050/3,440	Except for "N" Area*
	B6	1,530/5,010	
	B4	1,800/5,900	
	B3	2,030/6,660	
	T8	1,050/3,440	for "N" Area*
	T6	1,530/5,010	
	T4	1,800/5,900	
	T3	2,030/6,660	
23	D5	1,500/4,920	
	D3	1,800/5,900	

\*Except for Instructed by ATC when the Aircraft is on the air or on the ground

(c) Pilots should plan which exit taxiway to be used to vacate the runway in approach/landing briefing. Upon landing, pilots should vacate the runway without delay and pass the runway holding position marking on the exit taxiway. It is better, in terms of runway occupancy time, to aim for an exit which can be made, rather than to aim for an earlier one, just to miss it and then to roll slowly to the next.

Note ; The intensity of the taxiway center line lights listed below will be more increased than that of other taxiways to improve the recognition of these exit taxiways.

RWY	TAXIWAY
16L	C4, C6, C7
34R	C10, C11
22	B4
	B6
	T4
	T6
	A2, A5, L5
34L	A10, A12
	L12

- 1.2 Procedures other than 1. and 2. above and information
- (1) Aircraft operations other than scheduled or in emergency  
On use of this airport, aircraft operator is required to obtain the prior permission of the airport administrator.
  - (2) A380-800 is prohibited from operating between 2100UTC and 1400UTC.
  - (3) When operating A380-800 between 1400UTC and 2100UTC, the aircraft weight restriction is imposed.  
(see RJTT AD2.23.7)
  - (4) A380-800 and B747-8 shall equip digital avionics that provide steering commands to maintain an established track during the go-around manoeuvre and they shall be utilized when landing to runway.
  - (5) Aircraft without approvals of RNAV1 and RNAV5 is prohibited from operating.
  - (6) Preflight call to control tower  
IFR departing aircraft should notify TOKYO DELIVERY of their readiness five minutes prior to starting engines with following items for facilitating ATC service.
    - a. call sign
    - b. spot number
    - c. proposed flight level/altitude and route (only when changed from original Flight Plan)
  - (7) 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 runway should be kept to a minimum. If unable to do so, notify to Tokyo Tower.
  - (8) Pilot should ensure that they are able to follow the instruction for runway crossing without delay. Upon runway crossing, pilot should vacate the runway as soon as possible and pass through the runway holding position marking on the exit taxiway.
  - (9) Departure aircraft is required to take off with runway length 2500m except following (a) and (b).
    - (a) Between 2100UTC and 1400UTC : Departure aircraft(\*) for North America, Europe and Turkey.
    - (b) Between 1400UTC and 2100 UTC : Departure specified and allowed in advance(see RJTT AD2.21 NOISE ABATEMENT PROCEDURES 2.Noise Preferential Runways)

(Note)\*Between 0600UTC and 1000UTC, non-scheduled flight is required to take off with runway length 2500m,even though bound for North America, Europe and Turkey.
  - (10) Predetermined Runway depend on the flight direction  
During 2100UTC and 1400UTC, the aircraft will be assigned departure runway depending on the flight direction.

The Airway or Fix filed in Flight Plan (Reference AIC)	Departure Runway		
	North wind operation	South wind operation 1 (RWY22/23 approaches in progress)	South wind operation 2 (RWY16L/R approaches in progress between 0600UTC and 1000UTC)
ROVER, Y884, Y885	RWY34R	RWY16L	RWY16R <sup>(*1)</sup>
Y18 <sup>(*2)</sup>	RWY34R	RWY16L	RWY16R
	RWY05	RWY16R	RWY22
Y20 <sup>(*2)</sup>	RWY34R	RWY16L	RWY16R
	RWY05	RWY16R	RWY22
Y28, Y56, XAC	RWY05	RWY16R	RWY22

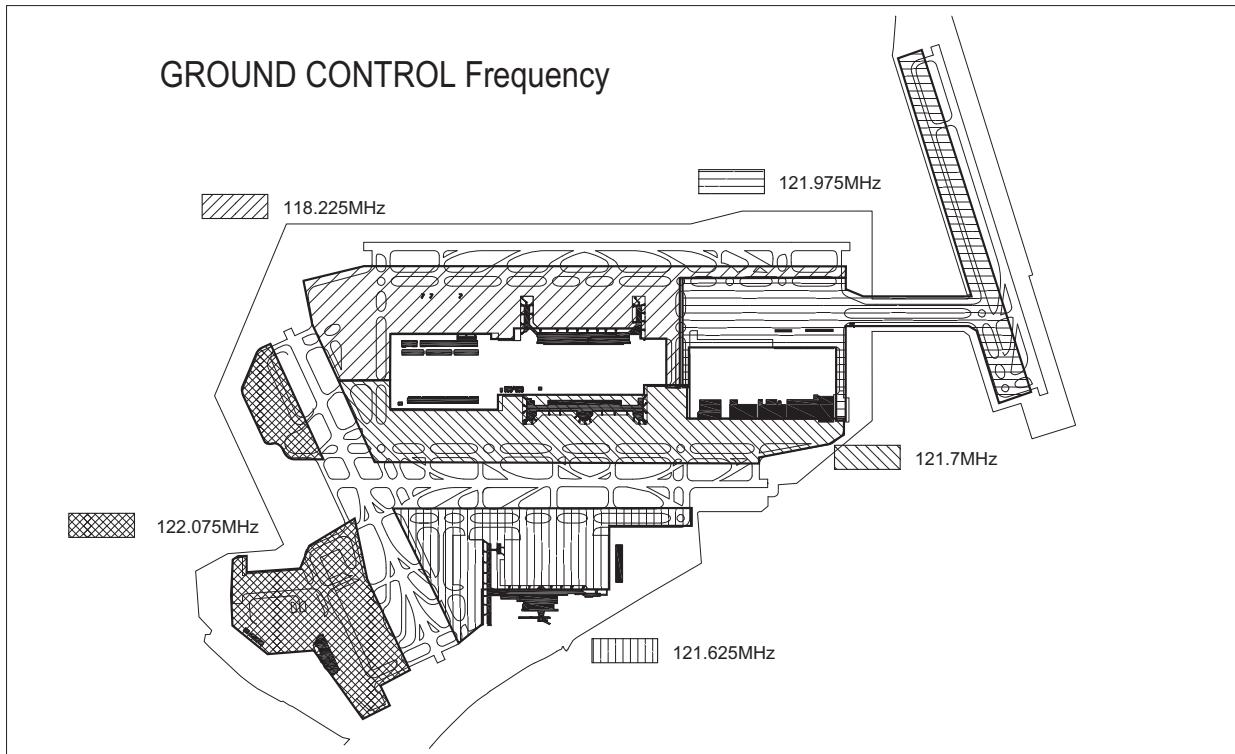
(Note1) \*1 Scheduled flight only for North America, Europe and Turkey will be assigned RWY16L.

(Note2) \*2 Departure runway will be assigned when Flight schedule is fixed.

(Note3) ATC may assign other runway that listed above, if required.

- (11) Runway is predetermined by flight direction.  
Aircraft which uses RWY05 for take off shall comply with the aircraft weight restriction. Even though aircraft weight exceeds the restriction, the other runway shall not be used.(see RJTT AD2.23.7)
- (12) Prior notice of spot number before landing  
All arriving aircraft should notify control tower of the parking spot number at initial contact.

(13) GROUND CONTROL Frequency  
See attached chart



## 1.3 Intersection departure

- (1) When RWY 34R/16L, 05, 16R, 04/22 is in use, departing aircraft may be instructed intersection departure from C2, C3, C13, D2, A15/L15, A14/L14, B2/T2 or B13 without pilot's consent. Aircraft unable to depart from C2, C3, C13, D2, A15/L15, A14/L14, B2/T2 or B13 intersection shall advise "TOKYO GROUND/TOWER" accordingly.
- (2) Separation for departure as in AD1.1.6.3.2.2(2) will not be applied to aircraft departing from TWY C13, D2, B2/T2, B13, TWY C3 behind departing aircraft from C2 or A14/L14 behind departing aircraft from A15/L15. Aircraft requiring separation in AD1.1.6.3.2.2(2) shall advise "TOKYO GROUND/TOWER" accordingly.
- (3) The remaining runway length for intersection departures are as follows.

RWY	TWY	Remaining RWY length *
34R	C2	2,920m(9,590ft)
	C3	2,820m (9,250ft)
	C5	2,420m (7,930ft)
	C6	2,100m (6,880ft)
	C7	1,780m (5,830ft)
	C8	1,330m (4,360ft)
	C13	3,180m (10,440ft)
	C12	2,800m (9,190ft)
16L	C11	2,480m (8,160ft)
	C10	2,030m (6,680ft)
	C9	1,650m (5,430ft)
	A2	2,520m (8,260ft)
	A3/L3	2,420m (7,960ft)
	A4/L4	2,320m (7,630ft)
	A5	2,010m (6,590ft)
	L5	1,980m (6,490ft)
34L	A6/L6	1,890m (6,200ft)
	A7	1,570m (5,150ft)
	A9/L9	1,470m (4,820ft)
	RWY 04/22	2,770m (9,080ft)
	A15	2,600m (8,550ft)
	L15	2,550m (8,370ft)
	A14	2,490m (8,190ft)
	L14	2,440m (8,010ft)
16R	A13	2,310m (7,570ft)
	A12	2,000m (6,560ft)
	L13	2,080m (6,850ft)
	L12	1,800m (5,910ft)
	A11/L11	1,930m (6,350ft)
	A10	1,500m (4,920ft)
	B2/T2	2,310m (7,570ft)
	B3/T3	2,030m (6,670ft)
04	B4/T4	1,800m (5,900ft)
	B5/T5	1,810m (5,950ft)
	B6/T6	1,530m (5,030ft)
	B13	2,320m (7,620ft)
	B12	1,930m (6,340ft)
	T12	1,880m (6,170ft)
	B11	1,660m (5,460ft)
	T11	1,630m (5,370ft)
22	B10	1,580m (5,190ft)
	B9	1,470m (4,830ft)
	T9	1,520m (5,010ft)
	D2	2,320m (7,620ft)
	D3	1,800m (5,900ft)
05	D4	1,880m (6,170ft)
	D5	1,500m (4,920ft)

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

- 1.4 Pilot should hold at RWY-holding position markings beside RWY guard lights are turned on at the TWY C1, C2, C3, C5, C12, C13 and C14.

Remarks; RWY-holding position markings and RWY guard lights are located at 75m and 90m off the runway center line on those TWY.(see RJTT AD2.24-ADC-1)

1.5 機材制限

B747-100/100SR, -200/200SR, -300/300SR 及び -SP(いわゆる、「クラシックジャンボ」)については、緊急機または国の航空機を除き運航は許可されない。

1.6 補助動力装置 (APU) の使用制限

航空機が対象スポットを使用する場合は、管理者が特に認める場合を除き、次に掲げる時間を超えて補助動力装置を使用してはならない。

(1) 出発予定時刻前の分 30 間

(2) 到着後、地上からの動力設備が使用可能となるまでに必要とする最小限度の時間

(3) 航空機が点検整備のため補助動力装置を必要とする場合は最小限度の時間

注) 対象スポットは、1 ~ 5R、5、6 ~ 24、51 ~ 73、105P、106 ~ 114、142 ~ 149 とする。

1.5 Aircraft type restrictions

B747-100/100SR, -200/200SR, -300/300SR and -SP(so-called "B747 Classics") are not allowed to operate all day except in emergency or state aircraft.

1.6 Restrictions about the use of auxiliary power units(APU)

When an aircraft is using following aircraft parking stand, APU shall not be used outside the time periods specified below except when specifically acknowledged by the authority as necessary.

(1) Less than 30 minutes prior to the estimated time of departure.

(2) The minimum time required for switching over to the fixed power facilities, after arrival at the parking stand.

(3) For the minimum time required for aircraft maintenance purposes if needed.

NOTE) Aircraft parking stand: Spot NR1-5R, 5, 6-24, 51-73, 105P, 106-114, 142-149.

1.7 PDA (parts departing aircraft) reporting to Airport Administration

In order to secure the safety of aircraft operations and to rectify the issue of falling objects from aircraft operating in the vicinity of Tokyo International Airport, aircraft operators are required to notify Airport Administration (Tel 03-5756-1531) of any "Parts Departing Aircraft" from flights operating to/from Tokyo International Airport, without delay. This information shall be shared by relevant parties in order to prevent recurrence of such.

2. Taxiing to and from stands

2.1 スポット 33 ~ 41 からのスポットアウト手順

プッシュバック後に、プッシュバックレーンから誘導路 W へ自走を行う場合は、使用スポット導入線とプッシュバックレーンの交点付近から、隣接スポット導入線と誘導路 W の誘導路中心線との交点付近を会合点として実施すること。ただし、管制官からプッシュバックレーンの走行を指示された場合<sup>\*1\*2</sup>は、プッシュバックレーンを走行した後、地上走行補助線を経由して誘導路 W へ自走すること。

プッシュバック後にプッシュバックレーンから誘導路 J 又は誘導路 J1 へ自走を行う場合は、プッシュバックレーンを走行した後、地上走行補助線を経由して誘導路 J 又は誘導路 J1 へ自走すること。

<sup>\*1</sup> 例：“TAXI VIA PUSHBACK-LANE TO W TWY”

<sup>\*2</sup> 例：“TAXI VIA PUSHBACK-LANE TO J TWY”

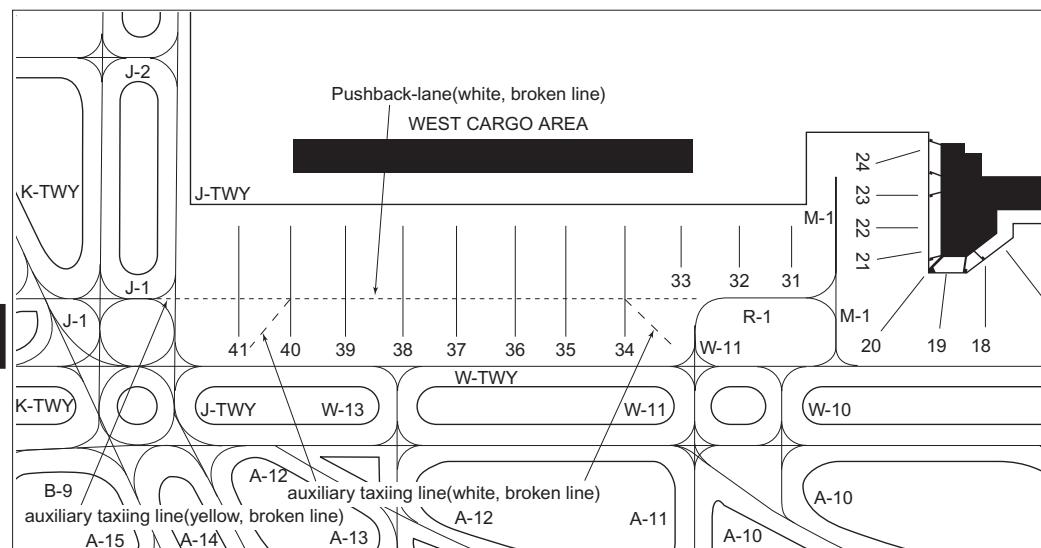
2.1 Spot OUT procedure from spot 33-41

After pushing back, ACFT taxiing from the Pushback-lane to TWY W, shall proceed to TWY W from the intersection of the Pushback-lane and the guide lane for the used spot, so as to intercept TWY W center line near the point crossing the guide lane for the next spot. However, when instructed to taxi via the Pushback-lane by ATC<sup>\*1\*2</sup>, ACFT shall taxi on the Pushback-lane and then proceed via the auxiliary taxiing line to TWY W.

After pushing back, ACFT taxiing from the Pushback-lane to TWY J or TWY J1, shall taxi on the Pushback-lane and then proceed via the auxiliary taxiing line to TWY J or TWY J1.

\*1 example: "TAXI VIA PUSHBACK-LANE TO W TWY"

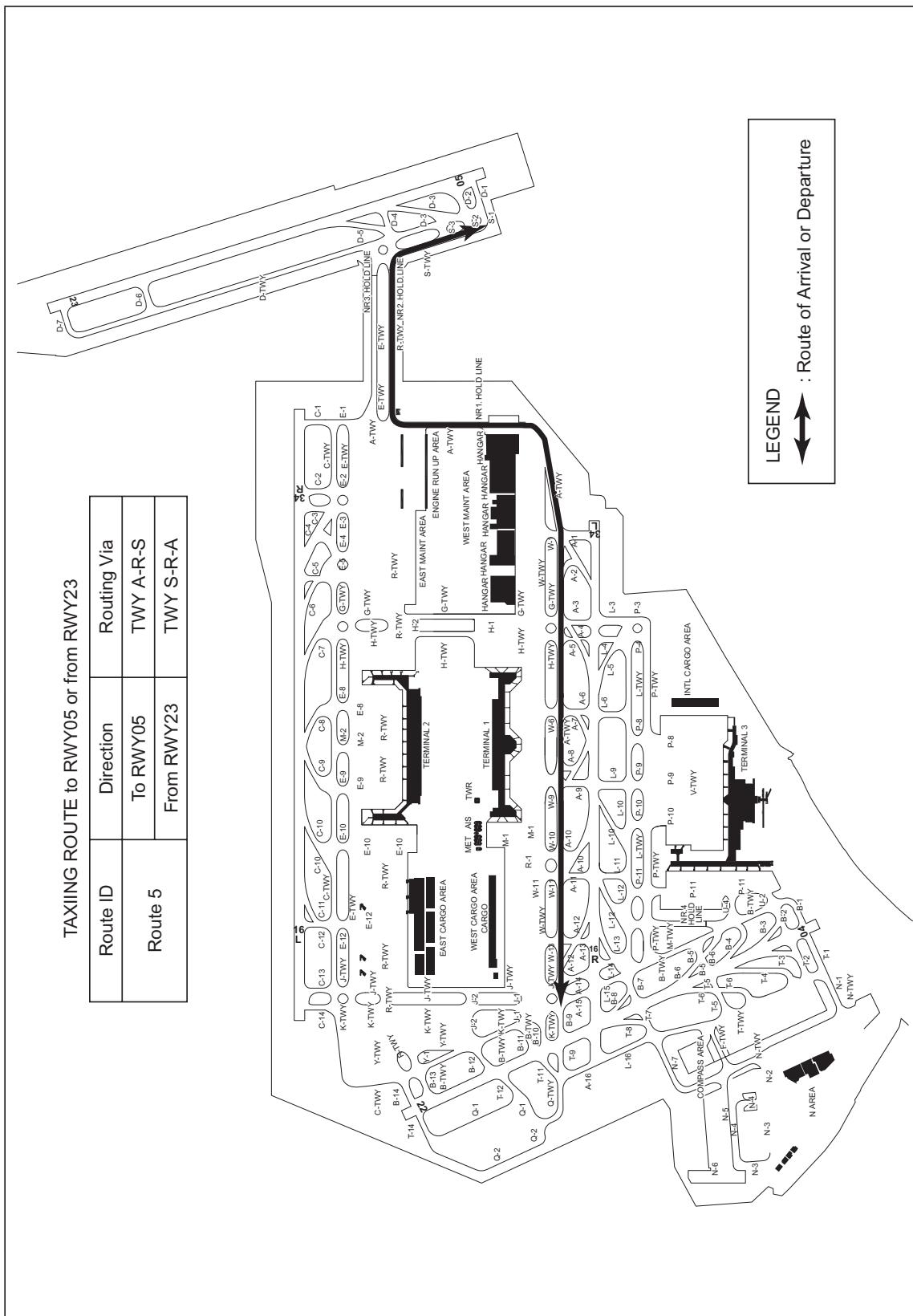
\*2 example: "TAXI VIA PUSHBACK-LANE TO J TWY"



2.2 Standard taxiing route(See attached chart RJTT AD2.20)

The standard taxiing routes for departure and arrival may be instructed by ATC, using route ID in the table below.

	Direction	Route ID	Routing Via
Departure	To RWY05	ROUTE 5	TWY A-R-S
Arrival	From RWY23		TWY S-R-A



## 3. Parking area for small aircraft(General aviation)

The following markings shown on the Fig.1 below are installed on the parking area for small aircraft.

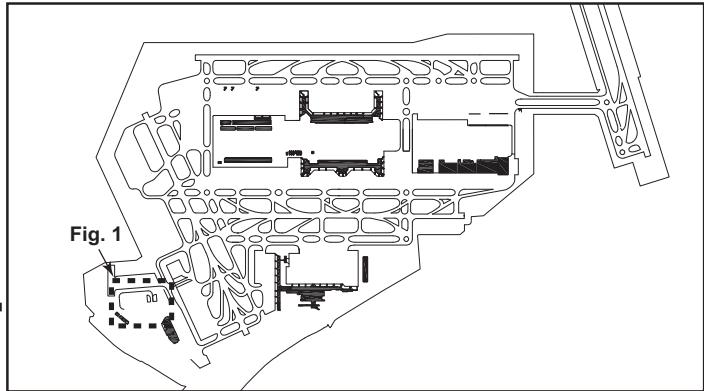
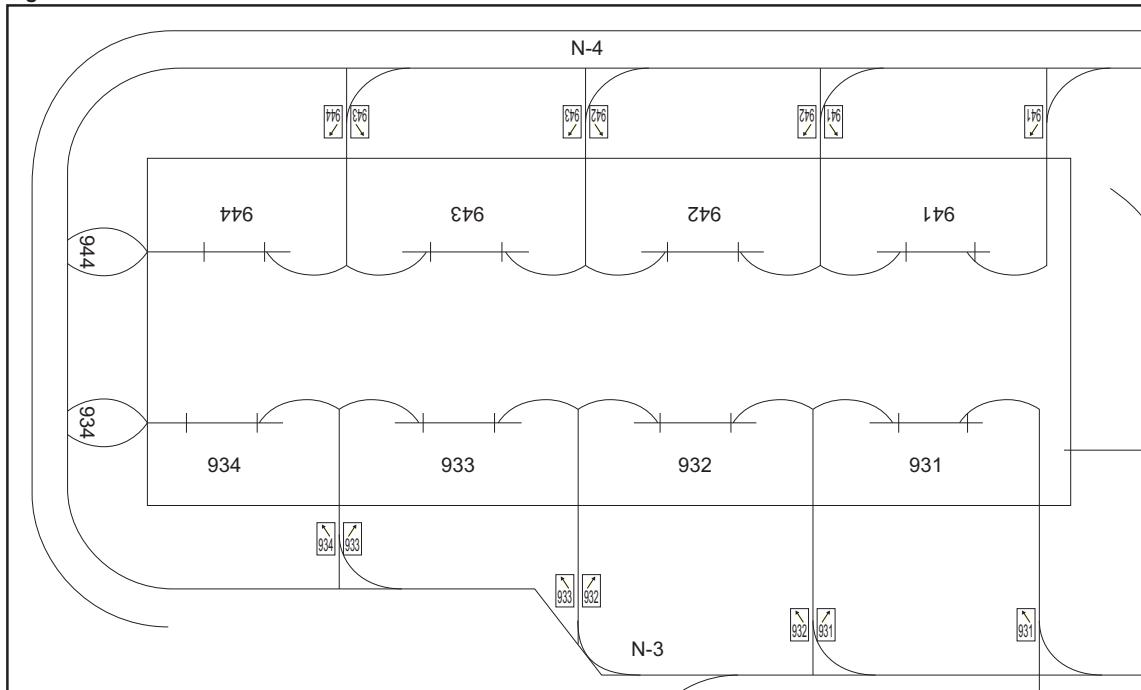


Fig. 1



4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

6.1 Restricted taxiways

(a) The aircraft of which wing span (WS) listed below table shall not pass following TWY or ACFT stand taxilane.

Restricted TWY or ACFT stand taxilane	WS	REMARKS
A(BTN A1 and A3), A(BTN A1 and W)	WS >= 74m	
A2, A5(BTN RWY16R/34L and A4), A5(BTN A3 and A4), A7, A8, A10, A13(BTN A and A12), A13(BTN RWY16R/34L and A12), B8, B9, B10, B11, J1(BTN B and K), J1(BTN K and J), C(BTN K and R), C4, C8, C9, C10, C13, E(BTN J and K), E3(BTN E and R), E4, E8(BTN C and E), E9(BTN C and E), E10(BTN C and E), E12, H1, L10, M2(BTN C and E), Y(BTN C and R), R(BTN A and G), R(BTN E10 and J), R(BTN G and H), T8, T9, T11, A16, W10, W11(BTN A and W), W(BTN K and B), E(BTN H and J), W13, W(BTN K and J), W(BTN J and M1)	WS >= 69m	
E10(BTN E and spot NR51), R1, J2(BTN K and Y), F, N(BTN spot NR981 and N7), N1, N2, N5, P11(BTN P and U2), U2, U4, W6, W9, W(BTN H and M1), W11(BTN W and R1), M1(BTN R1 and W)	WS >= 65m	
E8(BTN E and R)*, E9(BTN E and R)*, R(from E8 to E9)*, M1(from spot NR22 to spot NR24), M2(BTN E and R)	WS >= 61m	*The restrictions are excepted for B77W. REF AD2.20. 6.1(e)
Q	WS >= 52m	*REF AD2.23. 7
N6	WS >= 36m	Except towed aircraft of which WS below 48m
N3, N4	WS >= 33m	

(b) In order to keep clearance between other aircraft or obstacle, the aircraft of which wing span (WS) listed below table shall reduce taxi speed and shall strictly follow the taxiway center line as following TWY.

Restricted TWY	WS
A(from RU6 to RU7)	78m =< WS < 80m
A(from W to Hangar)	76m =< WS < 80m
E(from spot NR801 to NR807), E(from spot NR808 to NR811)	72m =< WS < 80m
W(from spot NR201 to NR214), P8(BTN P and V), P9(BTN P and V), P10(BTN P and V) and V	71m =< WS < 80m
C(BTN K and R), E3(BTN E and R), E12(BTN E and R), E(BTN H and J), Y(BTN C and R), R(BTN A and G), R(BTN E10 and J), W(BTN J and M1)	63m =< WS < 69m
W(from spot NR5 to NR20), R1, E10(from spot NR55 to spot NR51), J2(BTN K and Y), P11(BTN P and U2) and F	55m =< WS < 65m
M2(BTN E and R)	55m =< WS < 61m

(c) All aircraft shall taxi with minimum power when taxiing on apron taxiways in order to avoid blast damage to vehicles running along apron taxiways.

(d) In order to keep clearance between aircrafts and the fence etc, (31.5m from taxiway center line, 1.1m/AGL) which is installed on the bridge of E, P and R taxiway, all aircrafts shall reduce taxiing speed and follow the taxiway center line strictly.(see below chart)

E, P 及び R 誘導路橋梁部に設置されるフェンス等(誘導路中心線から 31.5m, 地上高 1.1m)と機体との間のクリアランスを確保するために、すべての航空機は速度を減じて且つ誘導路中心線を走行することを厳守すること。(下図参照)

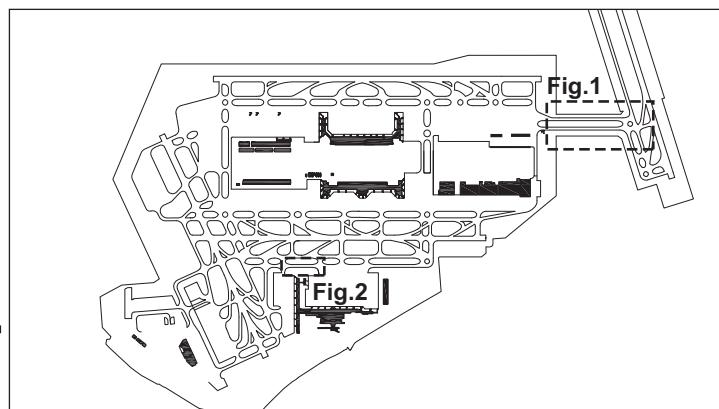


Fig.1

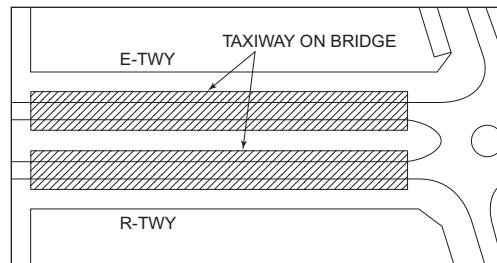
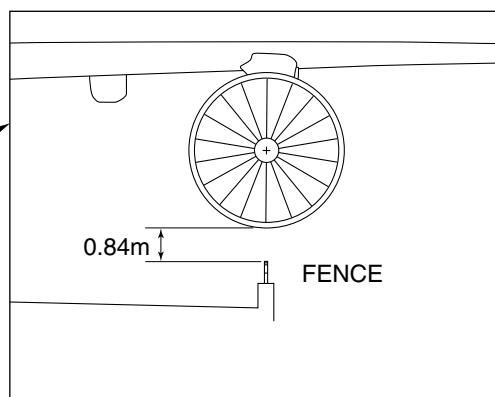
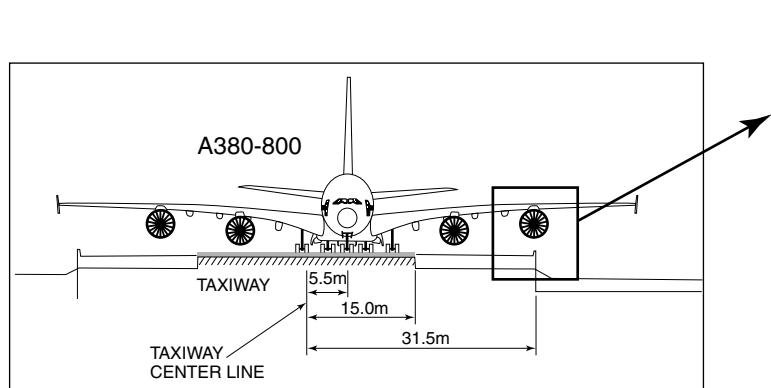
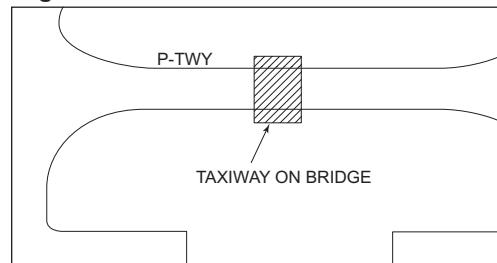


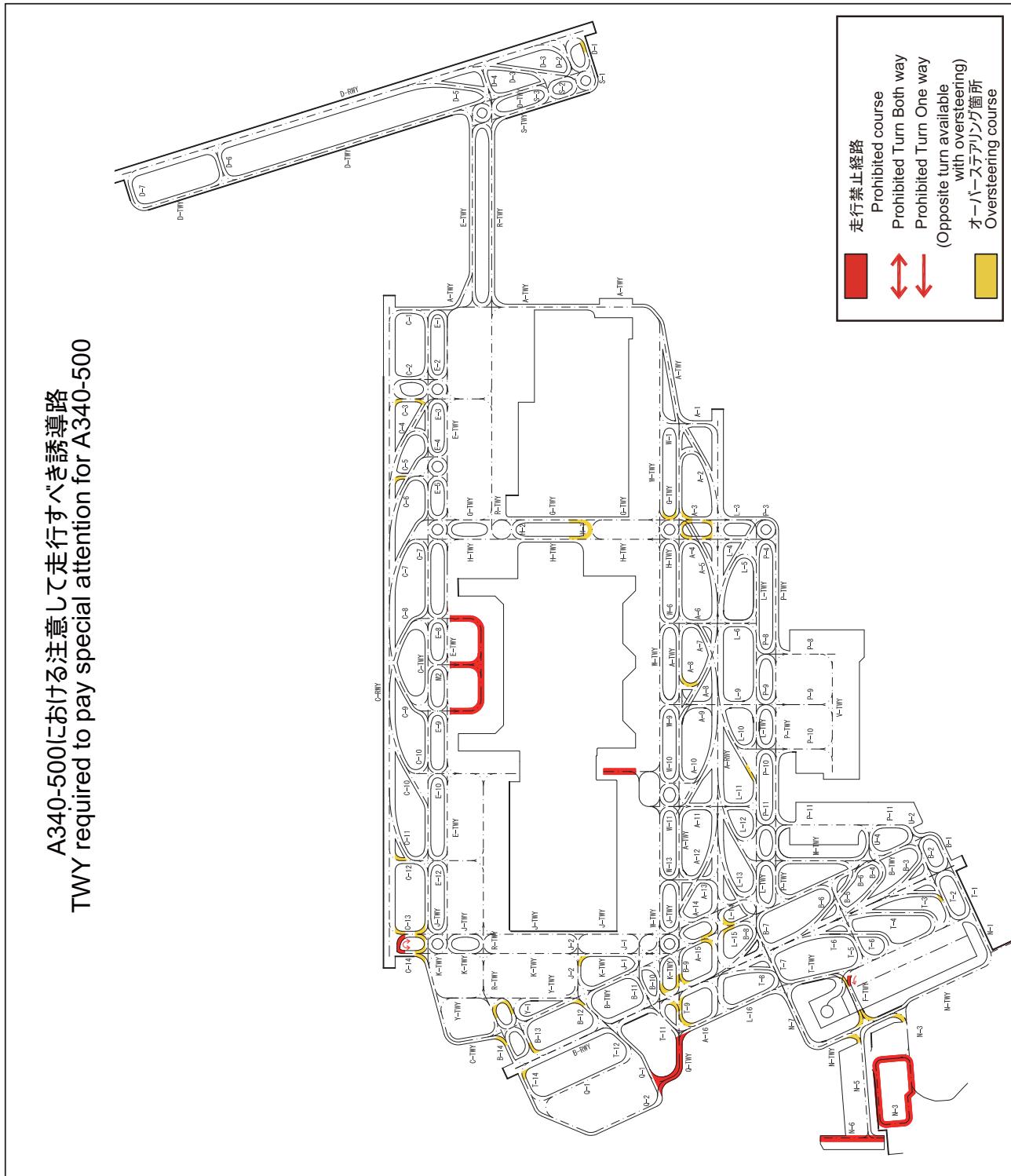
Fig.2



(e) Taxiway required to pay special attention are shown on attached chart.  
(See RJTT AD2.20.6.1(a) and (b))

1) A340-500 における注意して走行すべき誘導路

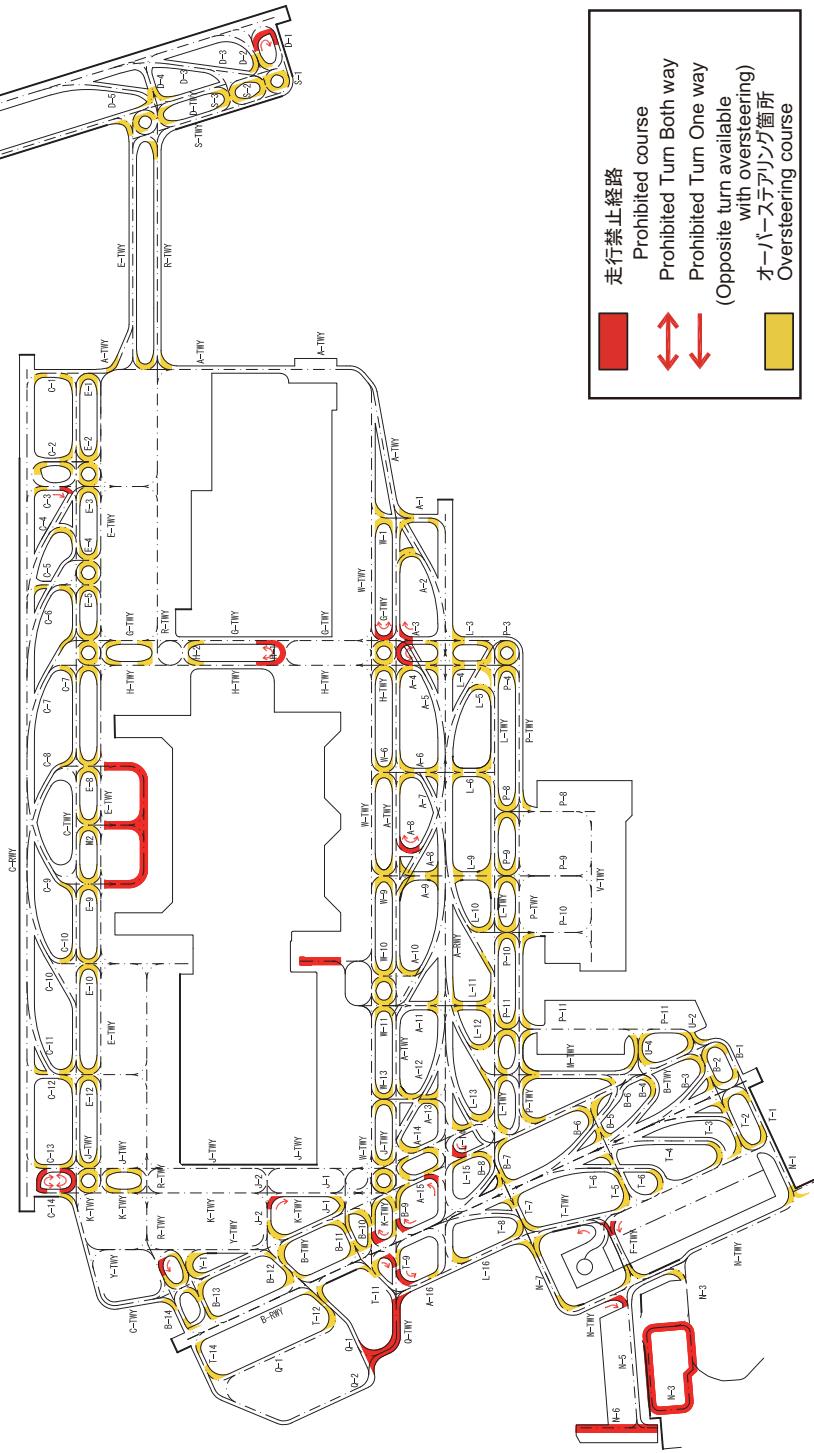
1) TWY required to pay special attention for A340-500



## 2) A340-600 における注意して走行すべき誘導路

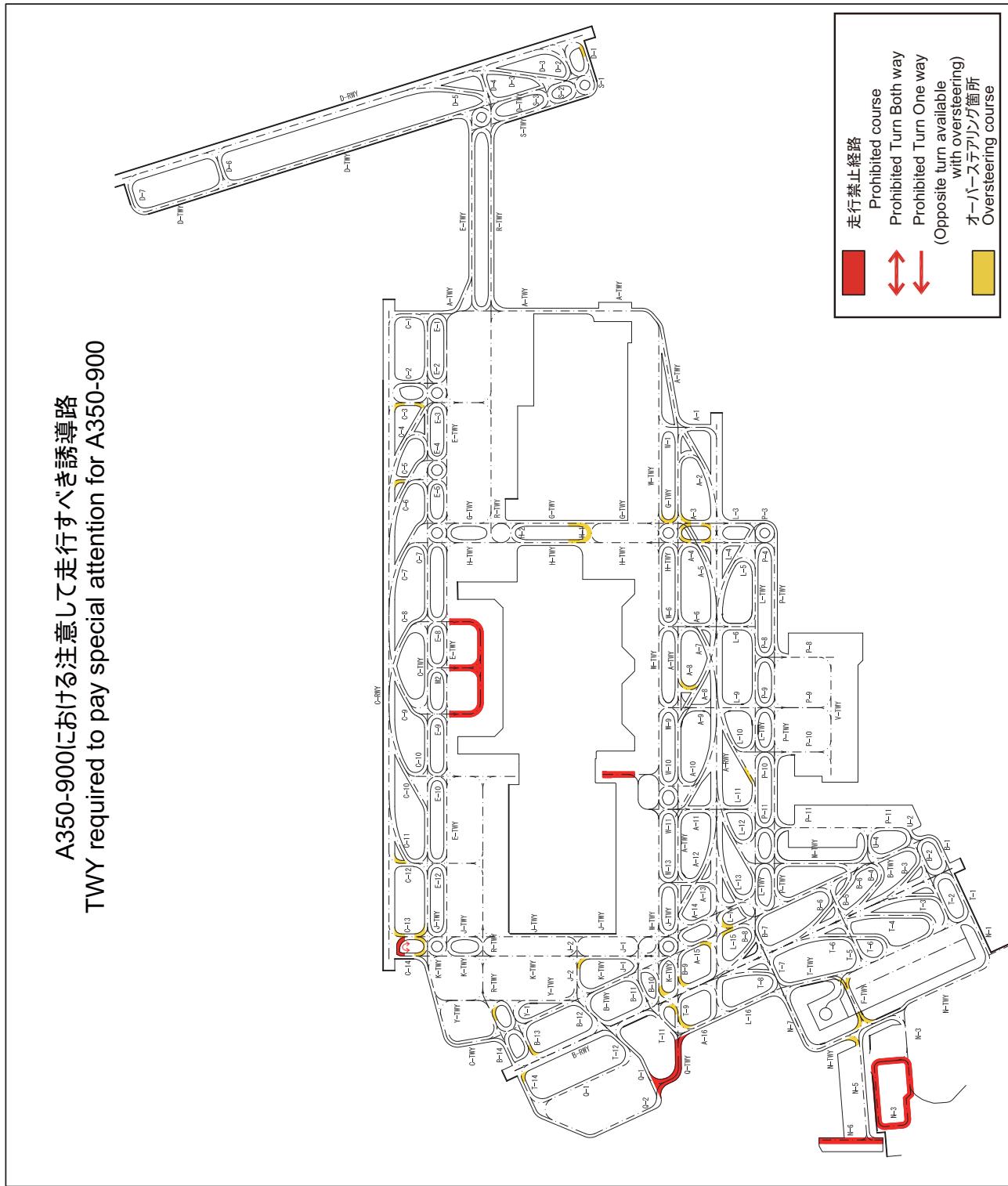
## 2) TWY required to pay special attention for A340-600

TWY required to pay special attention for A340-600



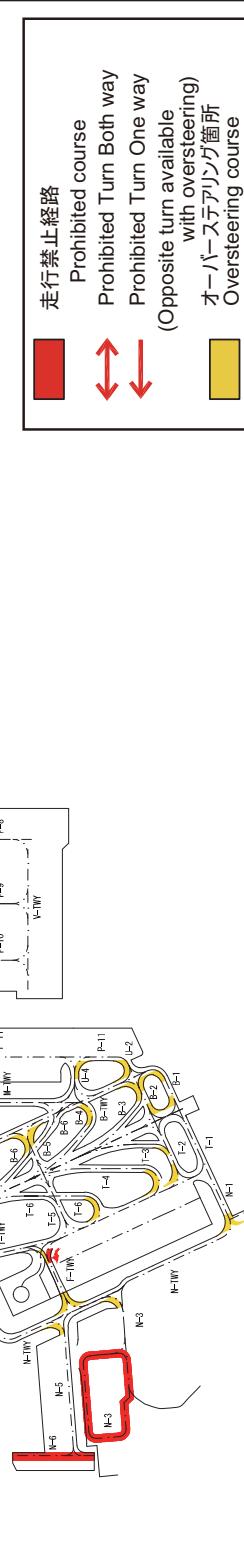
3) A350-900における注意して走行すべき誘導路

3) TWY required to pay special attention for A350-900



4) A350-1000における注意して走行すべき誘導路

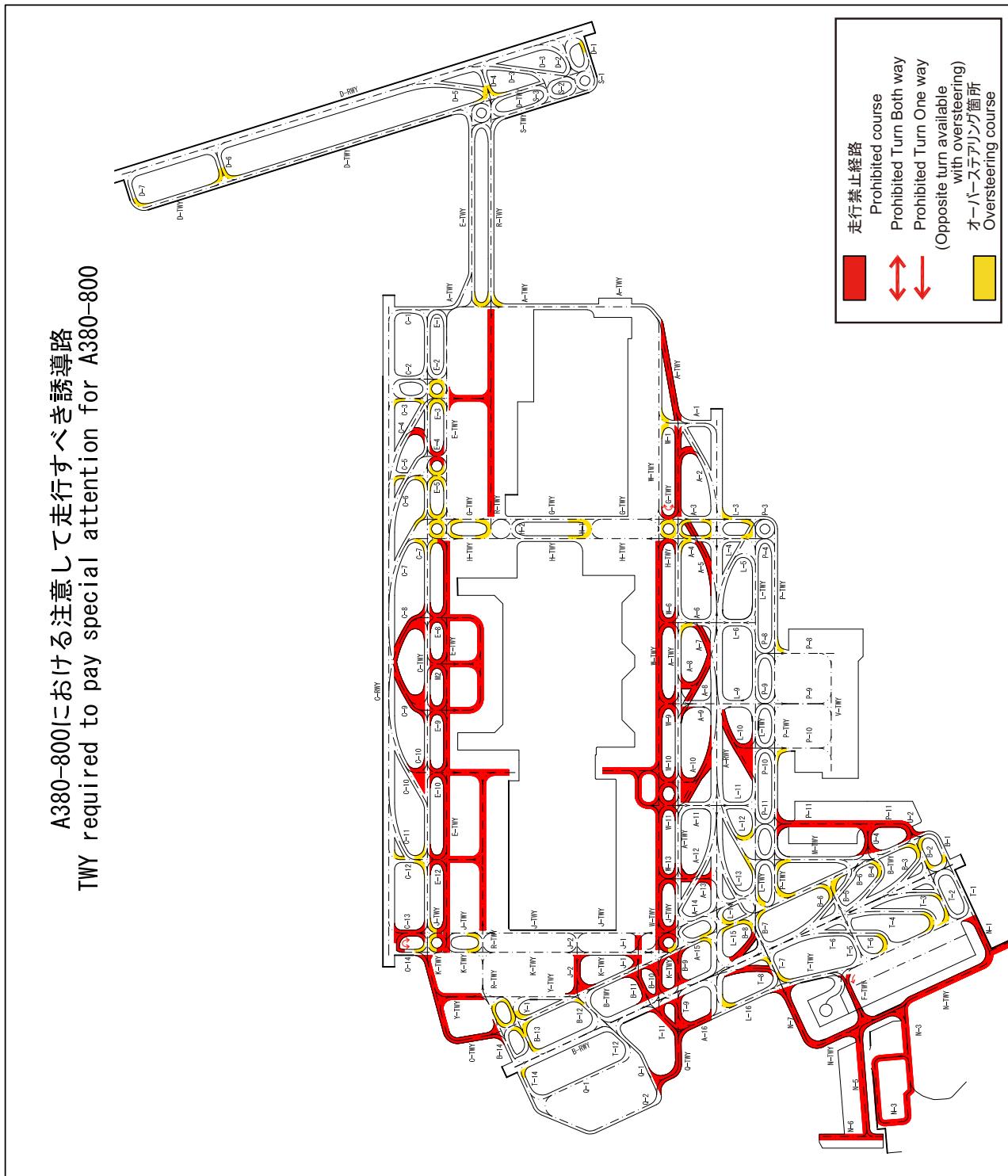
4) TWY required to pay special attention for A350-1000



## A350-1000における注意して走行すべき誘導路 TWY required to pay special attention for A350-1000

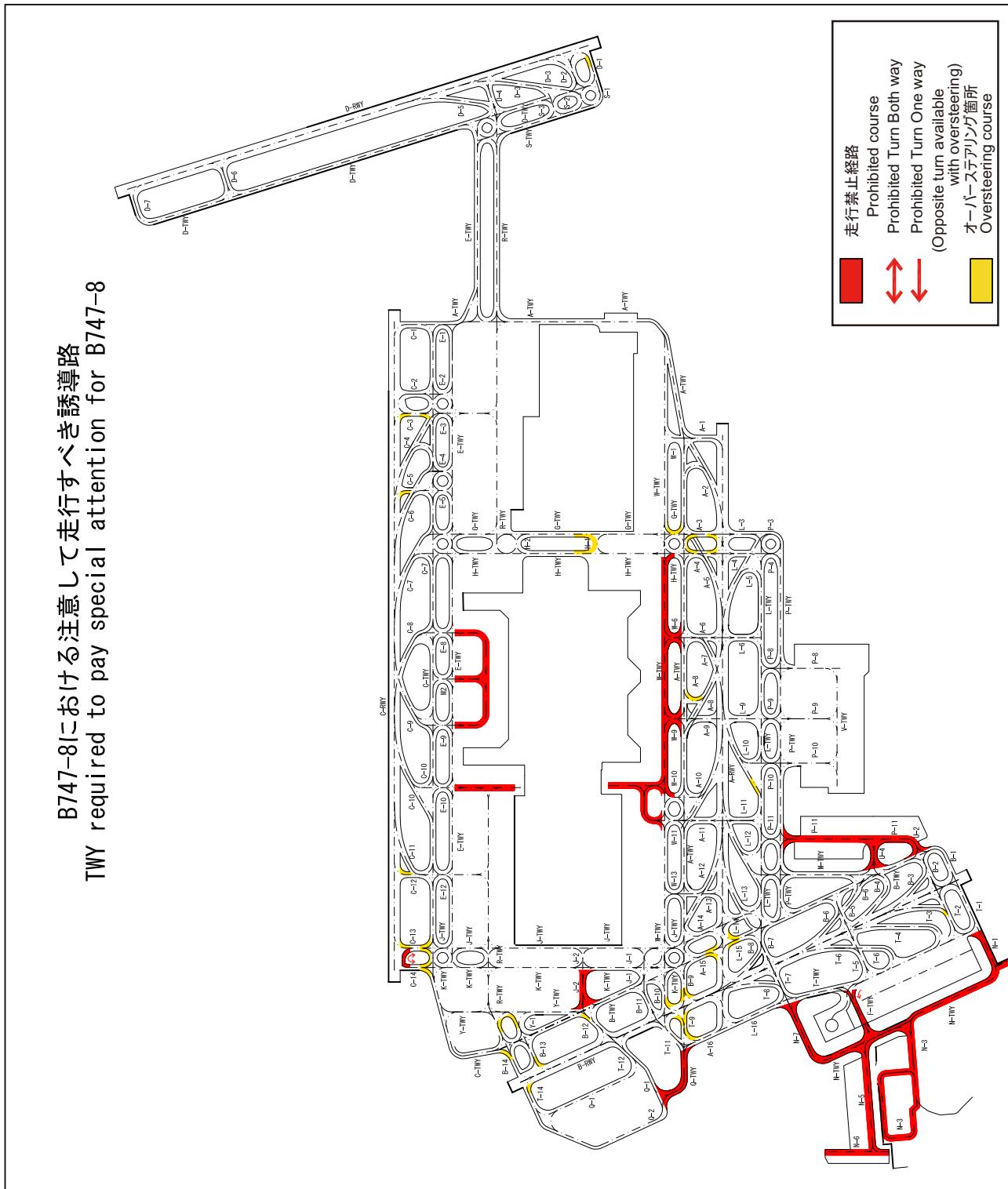
■ 5) A380-800における注意して走行すべき誘導路

5) TWY required to pay special attention for A380-800



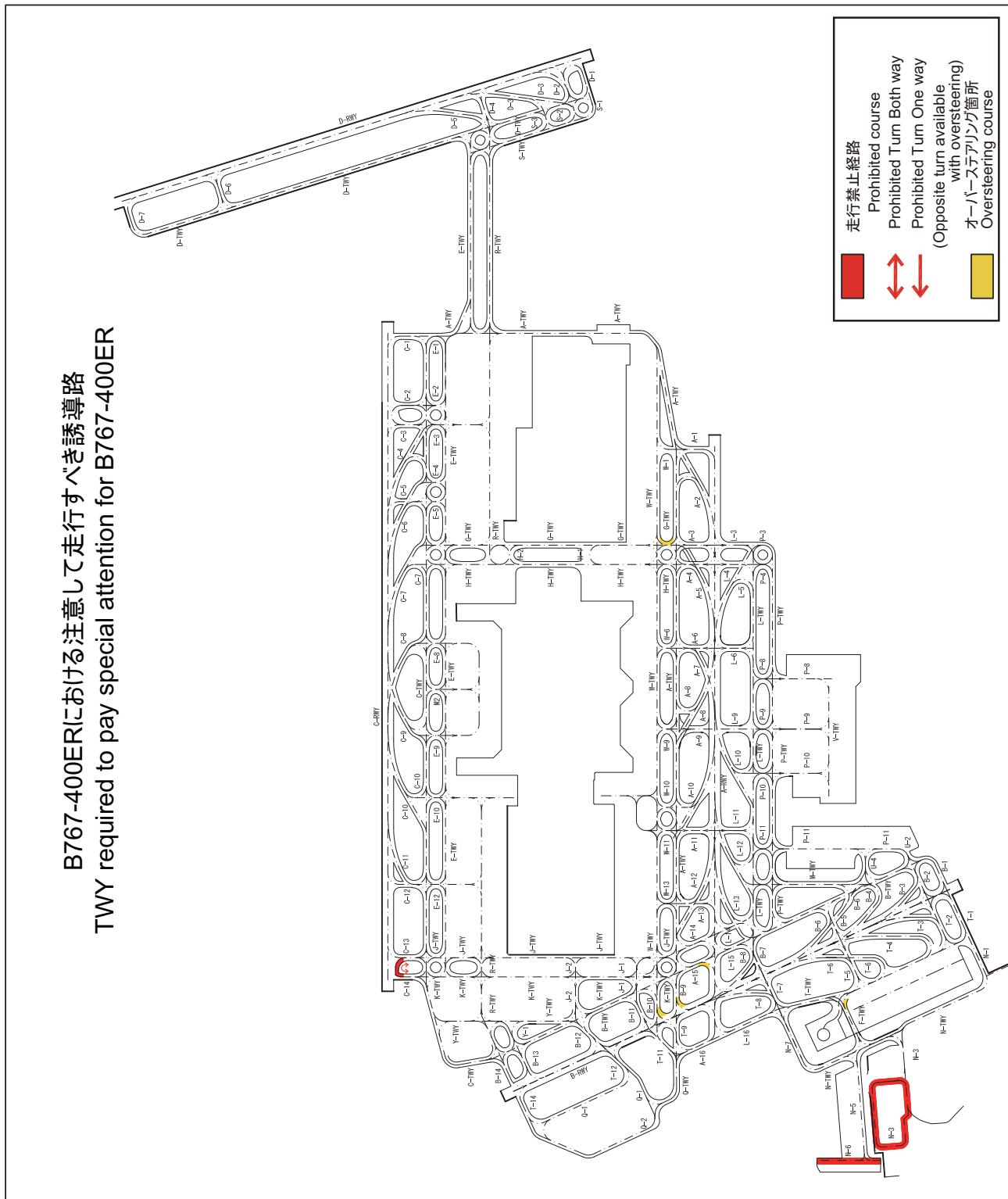
## 6) B747-8における注意して走行すべき誘導路

## 6) TWY required to pay special attention for B747-8



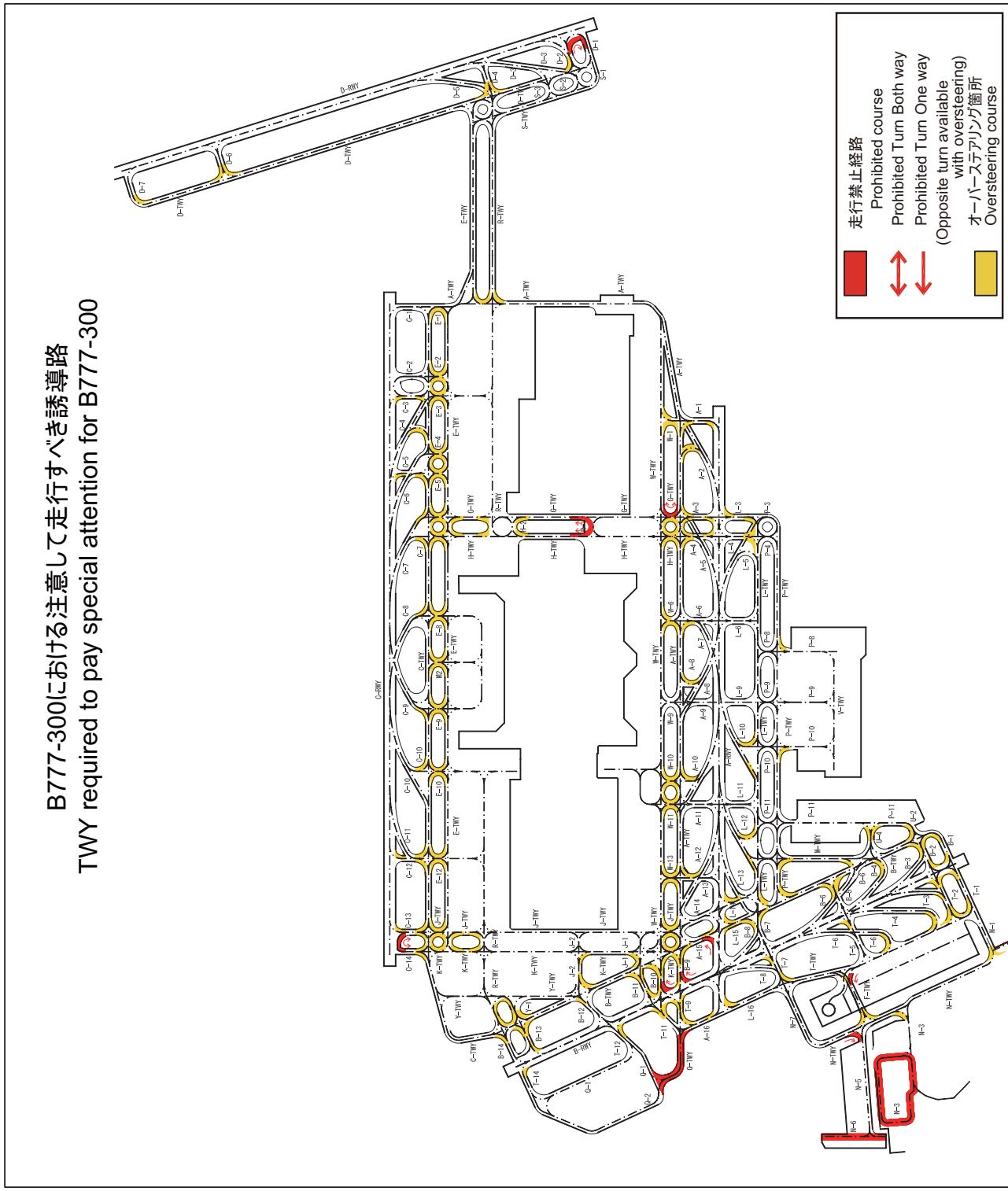
7) B767-400ERにおける注意して走行すべき誘導路

7) TWY required to pay special attention for B767-400ER



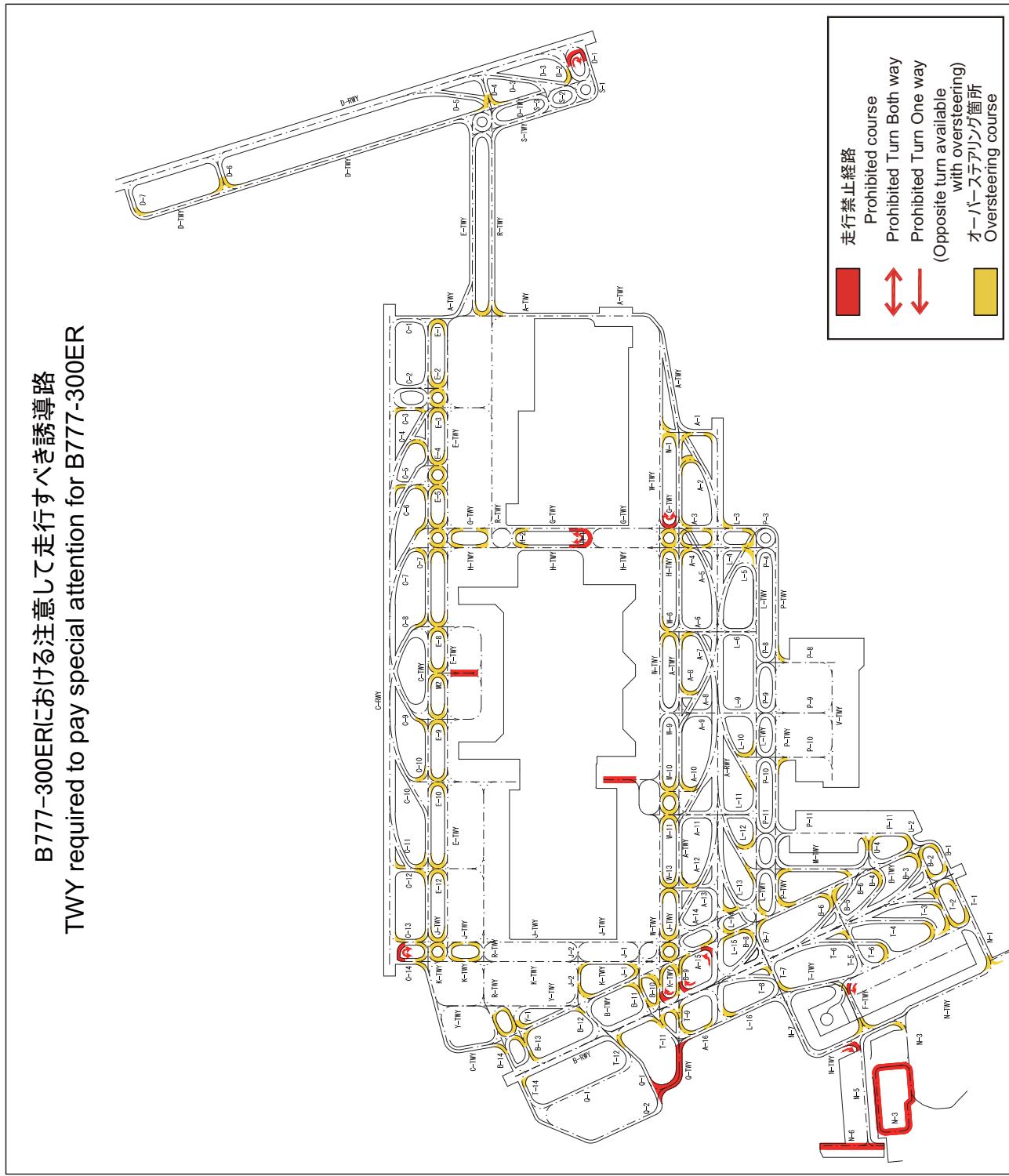
8) B777-300 における注意して走行すべき誘導路

8) TWY required to pay special attention for B777-300



9) B777-300ERにおける注意して走行すべき誘導路

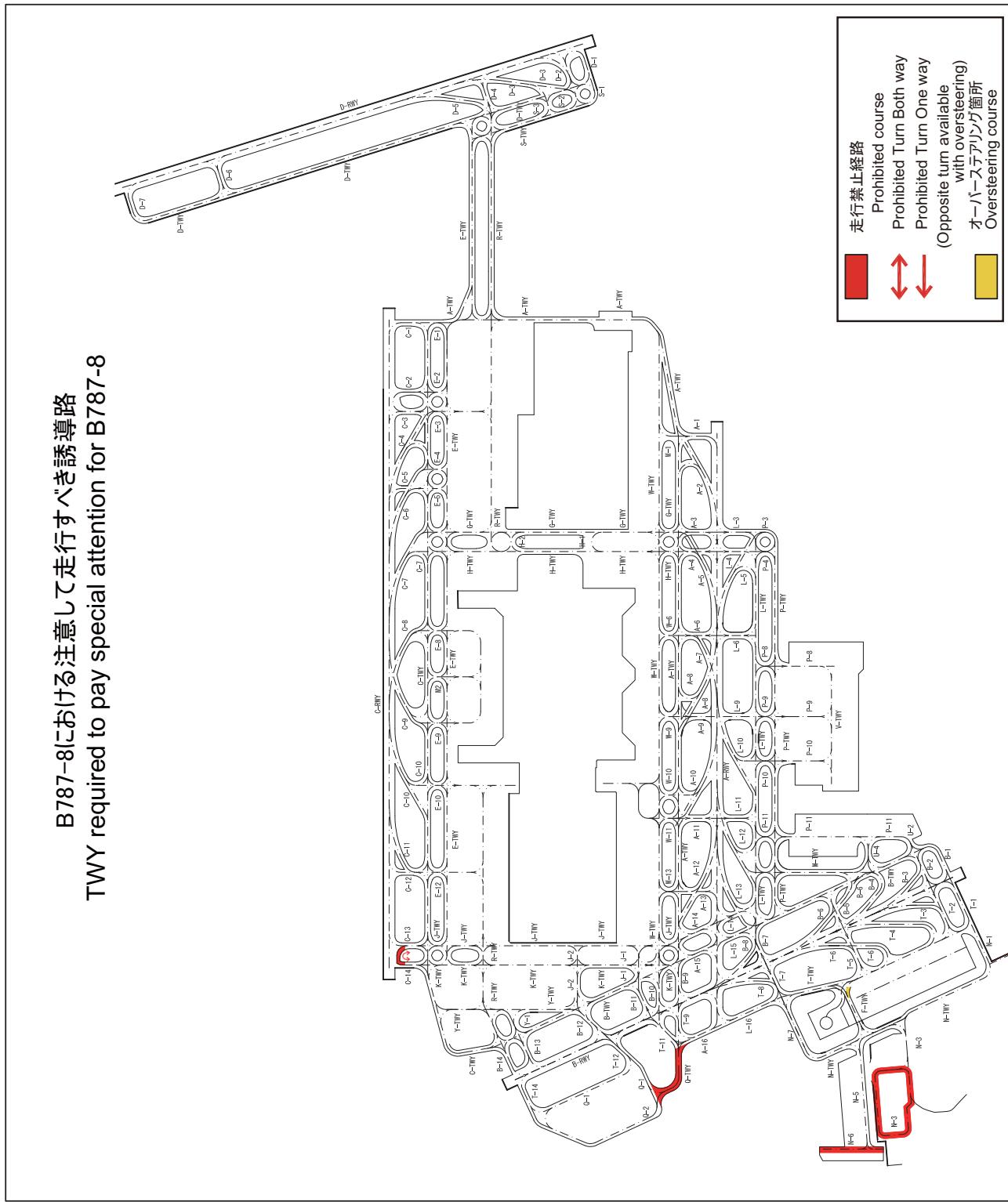
9) TWY required to pay special attention for B777-300ER



## 10) B787-8における注意して走行すべき誘導路

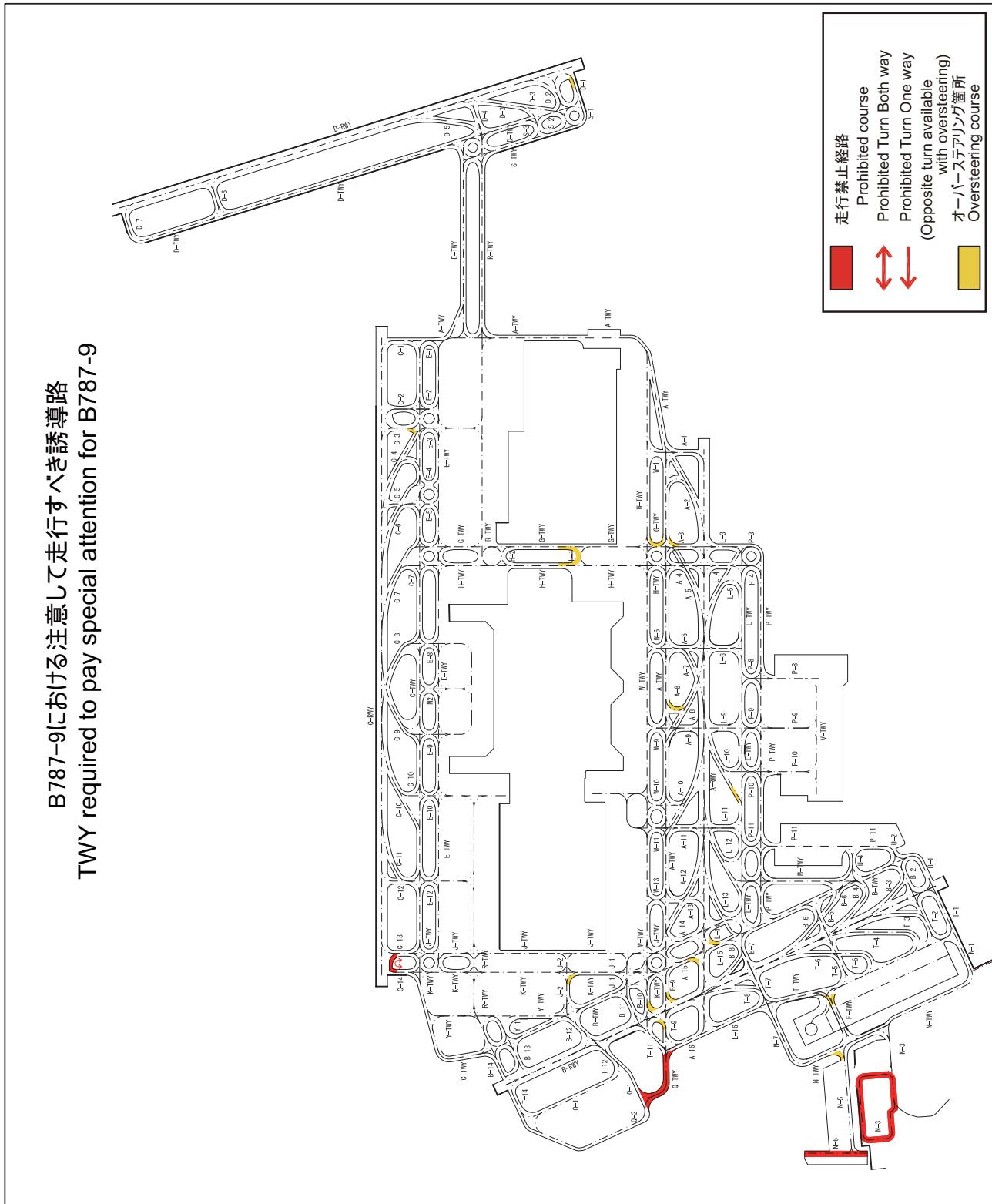
## 10) TWY required to pay special attention for B787-8

B787-8における注意して走行すべき誘導路  
 TWY required to pay special attention for B787-8



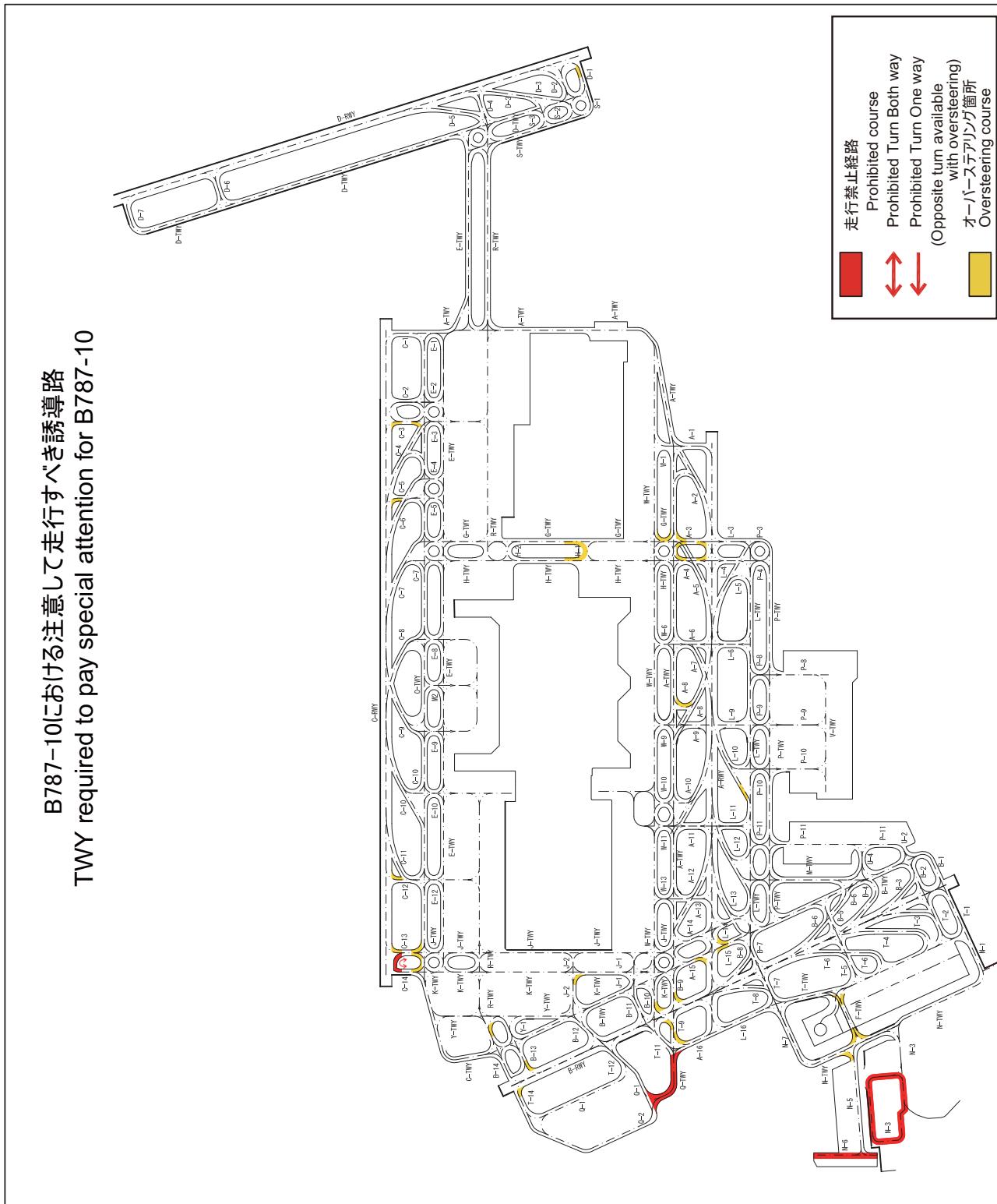
11) B787-9における注意して走行すべき誘導路

11) TWY required to pay special attention for B787-9



12) B787-10における注意して走行すべき誘導路

12) TWY required to pay special attention for B787-10



6.2 All aircraft shall hold at "GP HOLD LINE" on TWY A1, A12, A13, C12, B13, B14 until receiving further taxi clearance in order to protect ILS glide slope signal. (See RJTT AD2.24-APDC-1)

6.3 Wing tip clearance at the TWY intersection (REF. AD1.1.6.8)

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

1) When B748 holding at the stop marking on TWY C1, C2, C3, C5, C12, C13, or C14

wing span (WS) of ACFT taxiing on TWY C <sup>*1</sup>	WS =< 28.8m	28.8m < WS =< 45.8m	WS > 45.8m
wing tip clearance	A	B	×
wing span (WS) of ACFT taxiing on TWY C <sup>*2</sup>		WS =< 15.8m	WS > 15.8m
wing tip clearance		B	×

<sup>\*1</sup> When B748 holding at the stop markings located at 75m off the RWY center line.  
<sup>\*2</sup> When B748 holding at the stop markings located at 90m off the RWY center line.

2) When B748 holding at the stop marking on TWY T9

wing span (WS) of ACFT taxiing on TWY A16	WS =< 5.8m	WS > 5.8m
wing tip clearance	*B	*×

3) When B748 holding at the stop marking on TWY T7

wing span (WS) of ACFT taxiing on TWY T	WS =< 25.8m	WS > 25.8m
wing tip clearance	B	×

4) When B748 holding at the stop marking on TWY A14, A15, B9, B10, L14 or L15

wing span (WS) of ACFT taxiing on TWY B, L or TWY A	WS =< 21.3m	21.3m < WS =< 38.3m	WS > 38.3m
wing tip clearance	A	B	×

5) When B748 holding at the stop marking on TWY A3, A4, A6, A9, A11, A13, B2, B5, B7, B11, B13, B14, D1, D2, D4, D6, L3, L4, L6, L9 or L11

wing span (WS) of ACFT taxiing on TWY A, B, D or TWY L	WS =< 28.8m	28.8m < WS =< 45.8m	WS > 45.8m
wing tip clearance	A	B	×

6) When B748 holding at the stop marking on TWY B12

wing span (WS) of ACFT taxiing on TWY B	WS =< 17.9m	17.9m < WS =< 34.9m	WS > 34.9m
wing tip clearance	A	B	×

7) When B748 holding at the GP HOLD LINE on TWY A1

wing span (WS) of ACFT taxiing on TWY W	WS =< 24.6m	WS > 24.6m
wing tip clearance	B	×

Legend
A: wing tip clearance $\geq$ 15m
B: 6.5m $\leq$ wing tip clearance $<$ 15m
×
wing tip clearance $<$ 6.5m
*B: 10.5m $\leq$ wing tip clearance $<$ 15m
* $\times$ : wing tip clearance $<$ 10.5m

6.4 A 誘導路又は M 誘導路を西に向けて走行する航空機及び、R(A と S の間) 誘導路又は E 誘導路を南に向けて走行する航空機は、管制機関に指示された場合に限り、中間待機位置標識または中間待機位置灯で停止し待機する。(RJTT AD2.9.2 及び AD2.24 を参照)

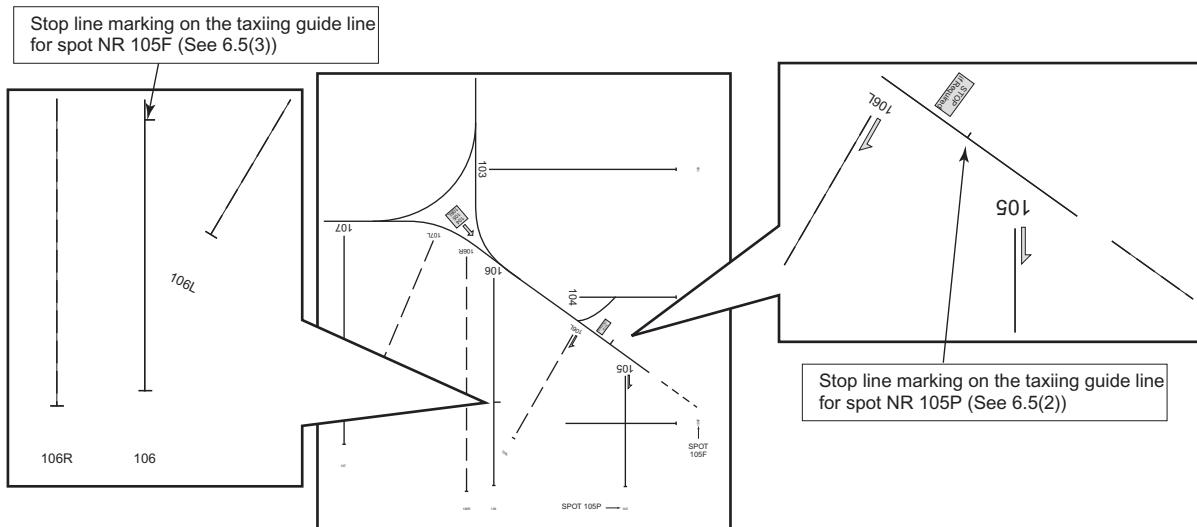
6.5 (a) Spot NR104, NR105P, NR105F 及び NR106 へのスポットインの方法(添付図参照)

- (1) Spot NR104 及び spot NR106  
各スポットの航空機導入線に沿ってスポットインすること。
- (2) Spot NR105P  
Spot NR105P の航空機導入線に沿ってスポットインする。ただし、NR103 に航空機が駐機している場合は、航空機ブラストの影響を避けるため、コード D 以上の航空機(翼幅が 36m 以上)は航空機導入線上の停止位置で停止し、エンジンカットした後、トeingによりスポットインする。
- (3) Spot NR105F  
Spot NR106 の航空機導入線に沿って走行し、spot NR106 の航空機導入線上の停止位置で停止し、エンジンカットした後、spot NR105F にトeingによりスポットインする。

6.4 The aircraft taxiing to the west on TWY A or TWY M and taxiing to the south on TWY R(between A and S) or TWY E shall hold at Intermediate Holding Position Marking or Intermediate Holding Position Lights only when instructed by ATC.  
(see RJTT AD2.9.2 and AD2.24)

6.5 (a) Procedures of taxiing to spot NR104, NR105P, NR105F and NR106(see attached chart)

- (1) Spot NR104 and NR106  
The aircraft should strictly follow the taxiing guide line.
- (2) Spot NR105P  
The aircraft should strictly follow the taxiing guide line of the spot NR105P.  
When there is an aircraft at the spot NR103 in order to avoid the blast damage, the aircraft with wing-span 36m or longer should shut down their engines at the stop line installed on the taxiing guide line and then should be pulled into the spot NR105P by the aircraft tug.
- (3) Spot NR105F  
The aircraft should strictly follow the taxiing guide line of spot NR106, and should shut down engines at the stop line installed on the taxiing guide line, and then should be pulled into the spot NR105F by the aircraft tug.

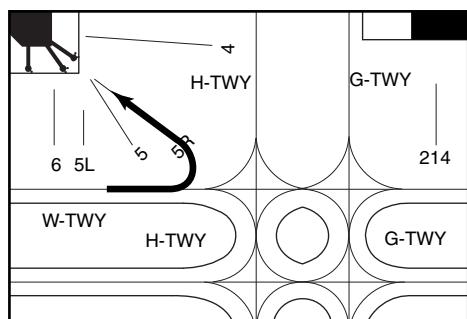


(b) Spot NR5R のスポットインの方法(添付図参照)

W 誘導路を経由してスポット NR5R に入る航空機は、十分に減速して航空機導入線に沿ってスポットインすること。

(b) Procedure of taxiing to spot NR5R(see attached chart)

The aircraft should reduce taxi speed and should strictly follow the taxiing guide line of the spot NR5R via W-TWY.



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

## RJTT AD 2.21 NOISE ABATEMENT PROCEDURES

1. 騒音制限

東京国際空港においては、以下の騒音軽減運航方式が適用される。

- ・優先滑走路方式
- ・優先飛行経路及び騒音軽減運航方式
- ・騒音軽減進入方式 (NAAP)

1. Noise restrictions

Following noise abatement procedures on Tokyo INTL Airport are in force.

- Noise Preferential Runways
- Preferential Routes and Aircraft Operating Procedures for Noise Abatement
- Noise Abatement Approach Procedure(NAAP)

2. 優先滑走路方式

使用される滑走路は以下の通り。(滑走路閉鎖時又は緊急事態発生時を除く。)

2. Noise Preferential Runways

Runways described below are used except when those runways are not available or urgent situation exists.

(離陸)

From 2100UTC to 1400UTC	<ol style="list-style-type: none"><li>1. 滑走路 05 及び 34R (北風運用時) 又は滑走路 16L 及び 16R (南風運用時) を優先的に使用する。ただし、0600UTC から 1000UTC の南風運用時は除く。(*1)</li><li>2. 滑走路 04 は、概ね 20 ノット以上の北東強風時又は滑走路 05 もしくは 34R の閉鎖時に使用する。</li></ol>	<p>(For Take off)</p> <ol style="list-style-type: none"><li>1. RWY05 and 34R(north wind operation applied) or, RWY16L and 16R(south wind operation applied) are preferentially used. Except during south wind operation from 0600UTC to 1000UTC.(*1)</li><li>2. RWY04 is used when northeast wind is about 20 knots or more, or, when RWY05 or RWY34R is closed.</li></ol>
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<p>From 1400UTC to 2100UTC</p> <p>* 滑走路 05 からの離陸機又は滑走路 34R への着陸機と、上記 3.b. による滑走路 34R からの離陸機が競合する場合、前者が優先される。</p> <p>* 滑走路 05/23 の航空機荷重制限 (AIP RJTT AD2.23.7) の超過は、上記 3.b. による滑走路 34R の使用理由とはならない。</p> <p>* 上記 3.b. による滑走路 34R からの離陸について、やむを得ないと考えられる範囲を超えた運用がなされた場合、当該号については適用休止又は削除等の措置を執る場合がある。</p> <p>* 指定便以外により滑走路 34R からの離陸を行った運航者は、以下の事項を東京空港事務所環境・地域振興課あてに FAX 又は E メールにより報告するものとする。</p> <ul style="list-style-type: none"> <li>a) 当該離陸の日時</li> <li>b) 航空機呼出符号及び航空機型式</li> <li>c) 当該離陸時のウエイト・アンド・バランスのデータ</li> <li>d) 当該離陸を行った理由（滑走路 05 の閉鎖／背風／横風）</li> <li>e) 風向、風速</li> <li>f) 滑走路の状態（wet/dry 等）</li> <li>g) その他の関連情報</li> </ul> <p>当該離陸が上記 3.b. によるものである場合は、併せて以下の情報を報告すること。</p> <p>h) 出発時における風速の背風又は横風成分のうち、制限を超えているものの当該制限値及び実際値</p> <p>東京空港事務所環境・地域振興課 FAX : 03-5756-1511(+81-3-5756-1511) E メール : hnd-kantika1596@mlit.go.jp</p> <p>4. 滑走路 04 は滑走路 05、滑走路 16L/16R 及び滑走路 34R が使用できない場合に使用する。</p>	<p>1. RWY05(north wind operation applied) or RWY16L(south wind operation applied) is preferentially used.</p> <p>2. When RWY05 and RWY16L are not available, RWY16R is used.</p> <p>3. RWY34R is available only when north wind operation applied, under following a. or b.circumstance, and RWY16L/R does not suit for safe take-off. However, in each case, all aircraft should take off with 2,500m RWY length from RWY34R threshold and keep its weight, main gear load and wheel load, on departure, at or below the limitations for RWY05/23(see RJTT AD2.23.7). (Because RWY34R is used as a substitute for RWY05.) However this does not apply to flights that is specified and allowed in advance in consideration of the performance and route distance, etc. "Specified flights". In this case, all specified aircraft should take off with 3,000m RWY length from RWY34R threshold.</p> <ul style="list-style-type: none"> <li>a. RWY05 is closed.</li> <li>b. The wind condition on departure exceeds crosswind or tailwind take-off limitations of RWY05.</li> </ul> <p>*Aircraft departing from RWY05 or landing to RWY34R have priority over the aircraft which departs from RWY34R due to 3.b. above.</p> <p>*No aircraft shall depart from RWY34R only because of being over the aircraft weight restriction of RWY05/23 (RJTT AD2.23.7).</p> <p>*As for 3.b. above, when take off from RWY34R beyond reasonable level is made, suspending/deleting the item(3.b.) , or other appropriate measures will be implemented.</p> <p>*Except specified flight, the operator of the aircraft which has made take-off from RWY34R, shall report following information to Environment and Regional Development Division Tokyo international airport office.</p> <ul style="list-style-type: none"> <li>a) date and time of the take-off</li> <li>b) call-sign and type of the aircraft</li> <li>c) weight and balance data of the aircraft on the departure</li> <li>d) reason for using RWY34R (RWY05 closed/tailwind limitation/crosswind limitation)</li> <li>e) wind direction and wind velocity</li> <li>f) runway conditions (wet/dry, etc.)</li> <li>g) other informations concerning</li> </ul> <p>if the take-off is made due to 3.b. above, following item h) shall be added,</p> <p>h) limitation and actual value of crosswind and/or tailwind on the departure which conflicts take-off limit</p> <p>Environment and Regional Development Division Tokyo International Airport Office FAX: 03-5756-1511(+81-3-5756-1511) e-mail: hnd-kantika1596@mlit.go.jp</p> <p>4. RWY04 is used when RWY05, RWY16L/R and RWY34R are not available.</p>
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## (着陸)

## (For Landing)

From 2100UTC to 1400UTC	<ol style="list-style-type: none"> <li>滑走路 34L 及び 34R (北風運用時)、又は、滑走路 22 及び 23 (南風運用時) を優先的に使用する。ただし、0600UTC から 1000UTC の南風運用時は除く。(*)</li> <li>2100UTC から 0600UTC まで、及び 1000UTC から 1400UTC までは、滑走路 16L は、概ね 20 ノット以上の南東強風時、又は、滑走路 22 が使用できない場合 (滑走路 23 が使用できない場合であって、滑走路 22 では対応が不可能な場合を含む。) に使用する。</li> </ol>	<ol style="list-style-type: none"> <li>RWY34L and 34R (north wind operation applied) or, RWY22 and 23 (south wind operation applied) are preferentially used. Except during south wind operation from 0600UTC to 1000UTC.(*)</li> <li>From 2100UTC to 0600UTC and from 1000UTC to 1400UTC, RWY16L is used when southeast wind is about 20knots or more, or, when RWY22 is not available (including the case that RWY23 is not available and RWY22 is unsuitable.).</li> </ol>
From 1400UTC to 2100UTC	<ol style="list-style-type: none"> <li>滑走路 34R (北風運用時) 又は滑走路 23 (南風運用時) を優先的に使用する</li> <li>北風運用時において滑走路 34R が使用できない場合、滑走路 34L を使用する。</li> <li>南風運用時において滑走路 23 が使用できない場合は、滑走路 16L、滑走路 22 の優先順位により滑走路を使用する。</li> </ol>	<ol style="list-style-type: none"> <li>RWY34R(north wind operation applied) or RWY23(south wind operation applied) is preferentially used.</li> <li>When north wind operation is applied, and RWY34R is not available, RWY34L is used.</li> <li>When south wind operation is applied, and RWY23 is not available, RWY16L and RWY22 is used in this order.</li> </ol>

## 3. 優先飛行経路及び騒音軽減運航方式

航空機が緊急状態又は避けがたい事態にある場合及びNOTAMに別段の定めがある場合を除き、次の運航方式がすべての航空機に適用される。ただし、航空機の安全な運航を確保するために必要な操縦者の職務権限と責任の遂行を妨げるものではない。

## 3. Preferential Routes and Aircraft Operating Procedures for Noise Abatement

Except in the event an aircraft is in an emergency, an unavoidable situation or unless otherwise specified by NOTAMs, the following procedures shall be adhered to by all aircraft. However, none of the procedures herein is intended, in any manner, to abrogate the responsibility of the pilot in command to assure the safe operations of the aircraft.

## (離陸)

## (For Take off)

From 2100UTC to 1400UTC	RWY 34R	<p>(右旋回離陸) 空港の北部、北西部及び北東部にある居住地域における航空機騒音を軽減するため、航空機は次のように従わなければならない。</p> <ol style="list-style-type: none"> <li>航空機は各航空会社のフライトマニュアルに規定されているバンク角及び速度により、できるだけ早く旋回を開始しなければならない。</li> <li>2200UTC から 0230UTC 及び 0600UTC から 1000UTC において、RITLA/BEKLA/ROVER [number] B/C Departure が承認された場合、急上昇方式もしくは NADP2 が適用される。</li> </ol>	<p>(For right turn departure)</p> <p>In order to minimize public annoyance for aircraft noise in the residential areas located north, northwest and northeast of the airport, the aircraft should comply with following procedures.</p> <ol style="list-style-type: none"> <li>Aircraft should commence turns as soon as practicable with bank angles and speeds as prescribed in each operator's flight manuals.</li> <li>From 2200UTC to 0230UTC and From 0600UTC to 1000UTC, when RITLA/BEKLA/ROVER [number] B/C Departure is cleared, Steepest Climb Procedure or NADP2 shall be applied.</li> </ol>
	RWY 34L	<p>(左旋回離陸) 空港の北部、北西部及び西部にある居住地域における航空機騒音を軽減するため、航空機は次のように従わなければならない。</p> <ol style="list-style-type: none"> <li>航空機は各航空会社のフライトマニュアルに規定されているバンク角及び速度により、できるだけ早く旋回を開始しなければならない。</li> <li>インターフェクションからの離陸は認められない。</li> </ol>	<p>(For left turn departure)</p> <p>In order to minimize public annoyance for aircraft noise in the residential areas located north, northwest and west of the airport, the aircraft should comply with following procedures.</p> <ol style="list-style-type: none"> <li>Aircraft should commence turns as soon as practicable with bank angles and speeds as prescribed in each operator's flight manuals.</li> <li>Intersection departure is not permitted.</li> </ol>
	RWY 05	なし	Nil
	RWY 16L	なし	Nil
	RWY 16R	なし	Nil

	RWY 04	(右旋回離陸) 空港の北部、北西部及び北東部にある居住地域における航空機騒音を軽減するため、各航空会社のフライトマニュアルに規定されているバンク角及び速度により、できるだけ早く旋回を開始するものとする。	(For right turn departure) In order to minimize public annoyance for aircraft noise in the residential areas located north, northwest and northeast of the airport, the aircraft should commence turns as soon as practicable with bank angles and speeds as prescribed in each operator's flight manuals.
From 2100UTC to 1400UTC	RWY 22	空港の西部にある居住地域における航空機騒音を軽減するため、航空機は次のように従わなければならない。  1. 航空機は各航空会社のフライトマニュアルに規定されているバンク角及び速度により、できるだけ早く旋回を開始しなければならない。 2. 急上昇方式が適用される。 3. 原則として主発動機が4発以上の航空機は運航が認められない。ただし、捜索救難及びVIP機を除く。 4. 以下の機種においては、可能な限り最大離陸推力を使用する。 B777, A330, MD11 5. B777, A330は、原則としてB14/T14からの離陸とする。 6. 使用する機材は、耐空証明における離陸測定点における離陸中の騒音値が89未満であること。(定期便を除く。)	In order to minimize public annoyance for aircraft noise in the residential areas located west of the airport, the aircraft should comply with following procedures.  1. Aircraft should commence turns as soon as practicable with bank angles and speeds as prescribed in each operator's flight manual.  2. Steepest Climb Procedure shall be applied. 3. In principle, aircraft with 4 or more main engines are not allowed to operate. Excluding search and rescue and VIP aircraft. 4. In the following models, using the maximum takeoff thrust as much as possible. B777, A330, MD11 5. In principle, B777, A330 should use intersection B14/T14 for takeoff. 6. The noise level (EPNdB) during takeoff at flyover reference noise measurement point in the airworthiness certification shall be less than 89. (Excluding Scheduled flights.)
From 1400UTC to 2100UTC	RWY 05	空港の北部及び北東部にある居住地域における航空機騒音を軽減するため、各航空会社のフライトマニュアルに規定されているバンク角及び速度により、できるだけ早く旋回を開始するものとする。	In order to minimize public annoyance for aircraft noise in the residential areas located north and northeast of the airport, the aircraft should commence turns as soon as practicable with bank angles and speeds as prescribed in each operator's flight manuals.
	RWY 16L	なし	Nil
	RWY 16R	なし	Nil
	RWY 34R	「OPPAR DEPARTURE」(代替方式無し)	[OPPAR DEPARTURE] (Not alternate procedures)
	RWY 04	空港の北部、北西部及び北東部にある居住地域における航空機騒音を軽減するため、各航空会社のフライトマニュアルに規定されているバンク角及び速度により、できるだけ早く旋回を開始するものとする。	In order to minimize public annoyance for aircraft noise in the residential areas located north, northwest and northeast of the airport, the aircraft should commence turns as soon as practicable with bank angles and speeds as prescribed in each operator's flight manuals.
		空港の北部、北西部及び北東部にある居住地域における航空機騒音を軽減するため、各航空会社のフライトマニュアルに規定されているバンク角及び速度により、できるだけ早く旋回を開始するものとする。	In order to minimize public annoyance for aircraft noise in the residential areas located north, northwest and northeast of the airport, the aircraft should commence turns as soon as practicable with bank angles and speeds as prescribed in each operator's flight manuals.

## (着陸)

1. 住居地域における航空機騒音を軽減するため、脚下げは運航上可能な限り遅く操作するものとする。特に、滑走路 22ILS 進入を使用する場合は IAD から 6.3 海里の地点まで住居が密集していることに留意すること。

2. 1300UTC から 2200UTC まではディレイド・フラップ進入方式によるものとする。

## (For Landing)

1. In order to reduce aircraft noise in the residential area, gear-down should be delayed as far as operationally practicable. Especially, when using RWY22 ILS approach, pay attention that residences are dense until 6.3NM from IAD.

2. Between the hours of 1300UTC and 2200UTC, aircraft should perform Delayed Flap Approach Procedure.

From 2100UTC to 1400UTC	RWY 34R	「HIGHWAY VISUAL RWY34R」が優先的に使用される。 「ILS Z or LOC Z RWY34R」は「HIGHWAY VISUAL RWY34R」が使用できない場合に限り使用される。	[HIGHWAY VISUAL RWY34R] is primarily applied. [ILS Z or LOC Z RWY34R] is applied only when [HIGHWAY VISUAL RWY34R] is not applicable.
	RWY 34L	「ILS X or LOC X RWY34L」が優先的に使用される。 「ILS Z or LOC Z RWY34L」は「ILS X or LOC X RWY34L」が使用できない場合に限り使用される。	[ILS X or LOC X RWY34L] is primarily applied. [ILS Z or LOC Z RWY34L] is applied only when [ILS X or LOC X RWY34L] is not applicable.
From 2100UTC to 1400UTC	RWY 22	「LDA W RWY22」が優先的に使用される。 (4. 騒音軽減進入方式を参照) 「LDA W RWY22」が使用できないときには、「LDA Z(X) RWY22」、「ILS RWY22」、「LOC RWY22」の順に使用される。	[LDA W RWY22] is primarily applied. (See 4.Noise Abatement Approach Procedure) When [LDA W RWY22] is not available, [LDA Z(X) RWY22], [ILS RWY22] and [LOC RWY22] is used in this order.
	RWY 23	「LDA W RWY23」が優先的に使用される。 (4. 騒音軽減進入方式を参照) 「LDA W RWY23」が使用できないときには、「LDA Z(X) RWY23」、「ILS Z RWY23」、「LOC Z RWY23」の順に使用される。	[LDA W RWY23] is primarily applied. (See 4.Noise Abatement Approach Procedure) When [LDA W RWY23] is not available, [LDA Z(X) RWY23], [ILS Z RWY23] and [LOC Z RWY23] is used in this order.
	RWY 16L	2100UTC から 0600UTC まで、及び 1000UTC から 1400UTC までは、空港の北部にある居住地域における航空機騒音を軽減するため、航空機は最終進入への旋回の間、付図に示すコースに沿って又はその内側を飛行しなければならない。 0600UTC から 1000UTC まで、「RNAV RWY16L」が優先的に使用される。(※2) 「ILS RWY16L」は「RNAV RWY16L」が使用できない場合に限り使用される。	From 2100UTC to 0600UTC and From 1000UTC to 1400UTC, in order to minimize public annoyance for aircraft noise in the residential areas located north of the airport, aircraft should fly along or inside of the course shown in attached chart during the circling to final.  From 0600UTC to 1000UTC, [RNAV RWY16L] is primarily applied.(※2) [ILS RWY16L] is applied only when [RNAV RWY16L] is not applicable.
	RWY 16R	0600UTC から 1000UTC まで、「RNAV RWY16R」が優先的に使用される。(※2) 「ILS RWY16R」は「RNAV RWY16R」が使用できない場合に限り使用される。	From 0600UTC to 1000UTC, [RNAV RWY16R] is primarily applied.(※2) [ILS RWY16R] is applied only when [RNAV RWY16R] is not applicable.
From 1400UTC to 2100UTC	RWY 34R	「ILS Y or LOC Y RWY34R」(via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL)	[ILS Y or LOC Y RWY34R] (via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL)
	RWY 34L	「ILS Y or LOC Y RWY34L」(via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL) リバーススラスト 空港周辺の航空機騒音を軽減するため、滑走路 34L 着陸後のリバーススラスト使用についてはアイドルパワーまでとする。	[ILS Y or LOC Y RWY34L] (via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL)  Reverse Thrust In order to reduce aircraft noise in the vicinity of the airport, pilots are requested to limit the use of reverse thrust to idle power after landing at RWY34L.
	RWY 22	「LDA Y RWY22」(via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL) リバーススラスト 空港周辺の航空機騒音を軽減するため、滑走路 22 着陸後のリバーススラスト使用についてはアイドルパワーまでとする。	[LDA Y RWY22] (via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL)  Reverse Thrust In order to reduce aircraft noise in the vicinity of the airport, pilots are requested to limit the use of reverse thrust to idle power after landing at RWY22.

From 1400UTC to 2100UTC	RWY 23	「LDA Y RWY23」(via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL)が優先的に使用される。 「ILS Y or LOC Y RWY23」(via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL)は、「LDA Y RWY23」が使用できない場合に限り使用される。	[LDA Y RWY23] (via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL) is primarily applied. [ILS Y or LOC Y RWY23] (via OSHIMA NIGHT ARRIVAL, AKSEL NIGHT ARRIVAL, AROSA NIGHT ARRIVAL or MESSE NIGHT ARRIVAL) is applied only when [LDA Y RWY23] is not applicable.
	RWY 16L	「VOR A」(via OSHIMA V ARRIVAL, AKSEL V ARRIVAL, AROSA V ARRIVAL or MESSE V ARRIVAL) 空港の北部にある居住地域における航空機騒音を軽減するため、航空機は最終進入への旋回の間、付図に示すコースに沿って又はその内側を飛行しなければならない。	[VOR A] (via OSHIMA V ARRIVAL, AKSEL V ARRIVAL, AROSA V ARRIVAL or MESSE V ARRIVAL) In order to minimize public annoyance for aircraft noise in the residential areas located north of the airport, aircraft should fly along or inside of the course shown in attached chart during the circling to final.

- (\*)1) 0600UTC から 1000UTC のうちの 3 時間程度にあっては、南風運用時において以下の滑走路が使用される。  
(離陸) RWY16R, RWY16L, RWY22  
(着陸) RWY16R, RWY16L
- (\*)2) 0600UTC から 1000UTC のうちの 3 時間程度であって、上記 (\*)1) の滑走路が使用される場合に適用される。
- (\*)1) For about 3 hours from 0600UTC to 1000UTC, the following runway is used during the south wind operation.  
(For Take off) RWY16R, RWY16L, RWY22  
(For Landing) RWY16R, RWY16L
- (\*)2) Applicable when the runway (\*)1) is used in about 3 hours from 0600UTC to 1000UTC.

#### 4. 騒音軽減進入方式 (NAAP)

(1) 適用時間帯  
2100UTC から 1400UTC の間

(2) 対象航空機  
BACON 経由滑走路 22 及び DATUM 経由滑走路 23 に着陸する航空機  
(レーダー誘導により LDA22 又は LDA23 ローカライザーコースへ会合するものを除く。)

(3) 対象経路  
LDA W RWY22 及び LDA W RWY23

(4) 実施条件  
台風等の悪天候、レーダー施設の障害等の重大な事象がないこと。

(5) NAAP の承認  
管制機関は LDA W RWY22 又は LDA W RWY23 による進入を許可することにより、NAAP を承認する。

(6) 繼続的な降下 (LDA W RWY22 のみ)  
NAAP 実施中は、不必要な TCAS-RA の発生を避けるとともに、騒音軽減のため、航空機は BACON と BEAST の間を 1500FT/min を超えない降下率で継続的に降下しなければならない。

(7) NAAP が実施できない場合  
悪天候などの理由により NAAP が実施できない場合には、航空機は東京アプローチとの通信設定時に、その理由とともに LDA Z RWY22 又は LDA Z RWY23 若しくはその他の進入方式を要求しなければならない。

(8) NAAP の中止  
交通状況等により、管制機関は承認した NAAP を中止することがある。その場合、代替指示が発出される。

(9) その他  
交通状況もしくは気象状態等によって、管制機関は進入方式上の速度と異なる速度を指示することがある。

#### 4. Noise Abatement Approach Procedure(NAAP)

1) Applicable time  
Between 2100UTC and 1400UTC

2) Aircrafts NAAP is applied  
All aircraft which land to RWY22 via BACON/RWY23 via DATUM of Tokyo INTL Airport. (except aircraft intercepting LDA22/LDA23 LOC course by RADAR vector)

3) Routes used for NAAP  
LDA W RWY22 and LDA W RWY23

4) Conditions  
No significant condition such as Typhoon, Severe WX conditions, or Malfunction of radar system etc. is observed.

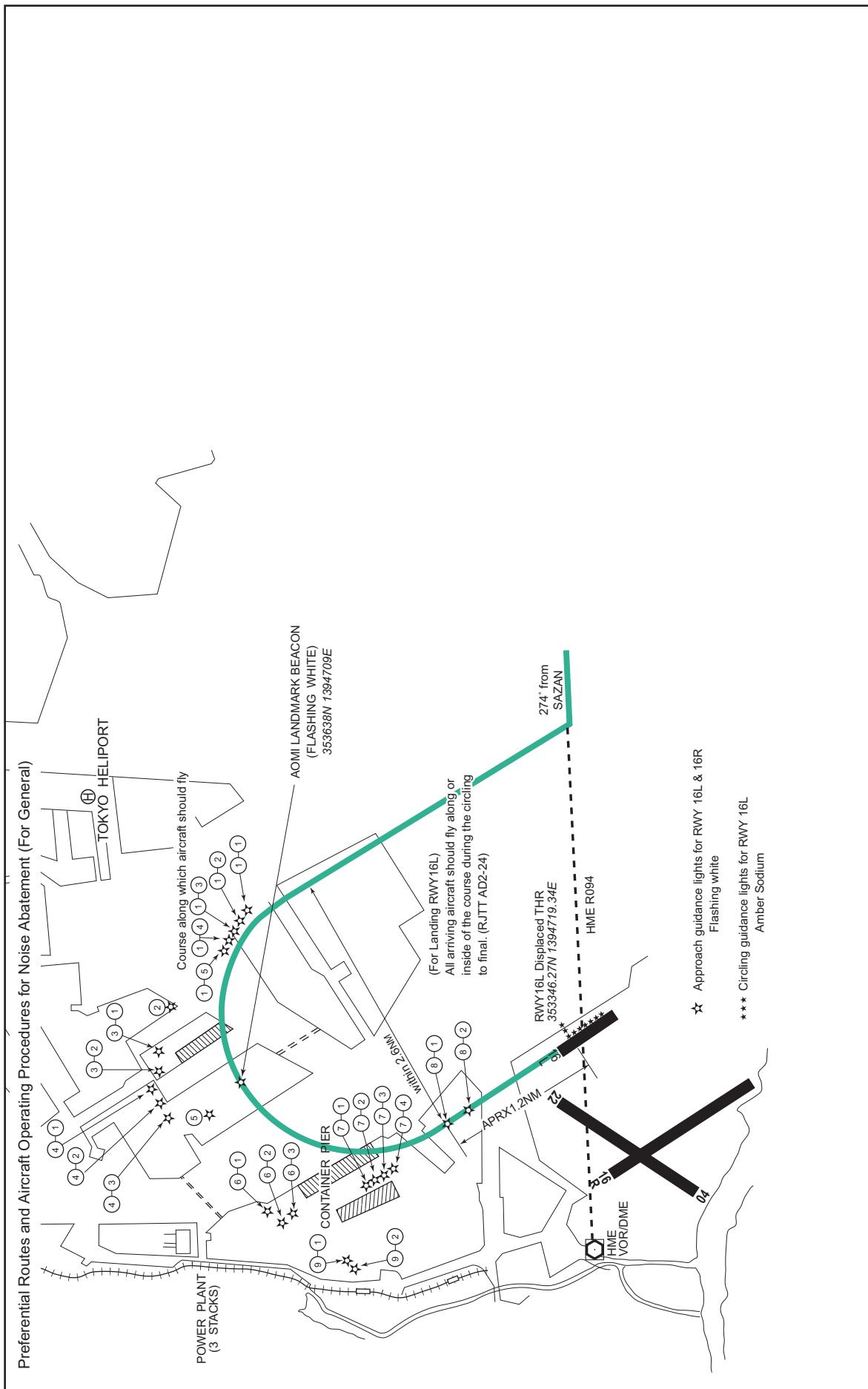
5) Clearance for NAAP  
ATC clears NAAP by assigning approach procedure of "LDA W RWY22" or "LDA W RWY23".

6) Continuous descent(only LDA W RWY22)  
To avoid nuisance TCAS-RA and reduce noise, while conducting NAAP, pilot should make descent continuously with 1500FT/min or less descending rate between BACON and BEAST.

7) In case NAAP is not available  
If NAAP is not available because of WX conditions etc, pilot should request LDA Z RWY22/LDA Z RWY23 or other approach with the reason at initial contact with Tokyo Approach.

8) Cancellation of NAAP  
ATC may cancel NAAP due to traffic conditions even after NAAP is cleared. In this case, alternate instructions will be issued.

9) Remarks  
Due to traffic or WX conditions, ATC may assign IAS differing from on attached.



**RJTT AD 2.22 FLIGHT PROCEDURES****1. TAKE OFF MINIMA**

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)	
			RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	04	A,B,C,D	-	400m	-	400m	-	500m
	22	A,B,C,D	400m	400m	400m	400m		
	05	A,B,C,D	400m	400m	400m	400m		
	16R	A,B,C,D	400m	400m	400m	400m		
	34L	A,B,C,D	400m	400m	400m	400m		
	16L	A,B,C	400m **200m ***150m	400m **200m	400m **250m	400m **250m		
		D	400m **250m ***200m	400m **250m	400m **300m	400m **300m		
	34R	A,B,C	400m **200m ***150m	400m **200m	400m **250m	400m **250m		
		D	400m **250m ***200m	400m **250m	400m **300m	400m **300m		
OTHER	04 22 05 16R 34L 16L 34R	A,B,C,D	AVBL LDG MINIMA					

\*\*APPLICABLE WHEN SSP IN FORCE

\*\*\*APPLICABLE WHEN SSP INFORCE and MULTIPLE RVRs AVAILABLE

**2. Trajectorydized Airport Traffic Data Processing System (TAPS)**

東京アプローチの指示のもとに、当該進入管制区を飛行する航空機は、モード A/3 の二次レーダー個別コード及びモード C による応答を指示される。

二次レーダー個別コードを搭載していない航空機が当該コードによる応答を指示された場合は、管制官に対し、その旨通報すること。

Aircraft flying under control of Tokyo approach control in the approach control area will be instructed to reply with discrete code on Mode A/3 and Mode C.

If an aircraft with non-discrete code capability be instructed to reply with the discrete code, it shall report a controller accordingly.

**3. 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;

- (I)
  - 1) Contact TOKYO Tower.
  - 2) If unable, proceed in accordance with visual flight rules.
  - 3) If unable,
    - a) When RWY34L or RWY34R in use, proceed to SINGO at last assigned altitude or 4,000feet whichever is higher, and execute instrument approach for RWY34R.
    - b) When RWY22, RWY23, RWY16L or RWY16R in use, proceed to SMILE at last assigned altitude or 4,000feet whichever is higher, and execute instrument approach for RWY23.
- (II) Procedures other than above will be issued when situation required.

**4. Flight restrictions**

Unless otherwise authorized by ATC.

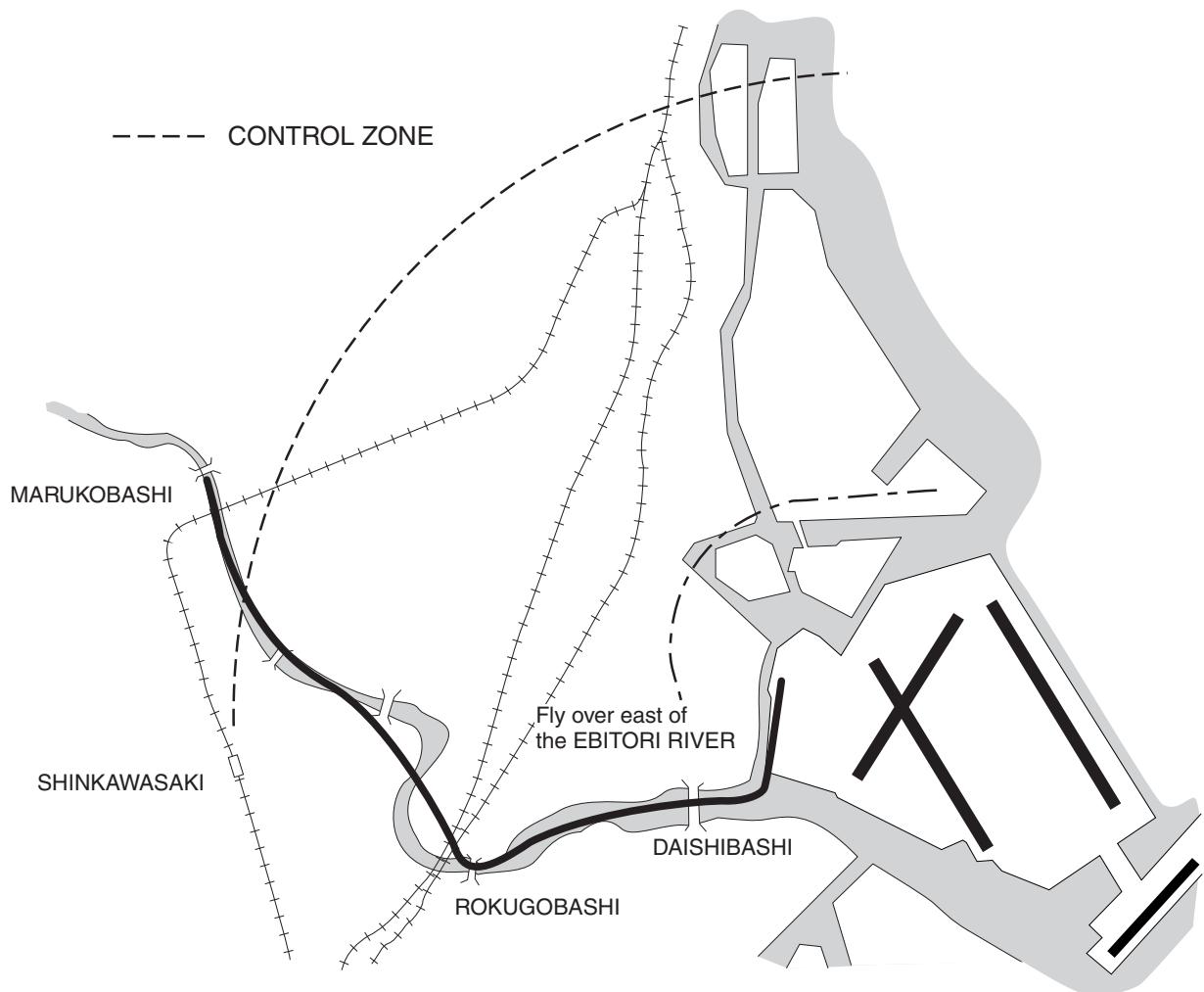
Aircraft other than the arriving at and/or departing from Tokyo International Airport are required not to fly over the Kawasaki Petrochemical Complex area, and even in case of flying over the area, not to fly below an altitude of 3,000feet.  
(See AD2.24 OTHER CHART ATTACHMENT 1)

5. Special VFR flight route for helicopter (See below chart)

## SPECIAL VFR FLIGHT ROUTE FOR HELICOPTER

Special VFR flight route for helicopter in  
the TOKYO Control ZONE

Daishibashi - (along the Tama River) - Marukobashi



**6. SIMULTANEOUS INDEPENDENT LDA APPROACHES (SILA)****1) Applicable instrument approach procedures for SILA**

LDA W RWY22(with VPT), LDA W RWY23(with VPT), LDA Z RWY22(with VPT), LDA Z RWY23(with VPT), LDA X RWY22(with VPT) and LDA X RWY23(with VPT)

Note: "VPT" stands for Visual maneuver with Prescribed Track that meets the criteria of ICAO PANS-OPS (Doc.8168). A specific track for visual maneuvering after the MAPt is prescribed in these procedures.

**2) Conditions**

SILA, where radar separation minima between aircrafts on adjacent localizer courses and VPTs are not prescribed, will be conducted when the following conditions are met. However, SILA shall not be applied under certain adverse weather conditions which might affect safe operations (e.g. windshear on the final approach course, etc.).

- A. No Transgression Zone (NTZ) 610m wide is established equidistant between localizer courses and is depicted on the radar display.
- B. LOC, radar, and appropriate frequencies are operating normally.

Note: Visual aids associated with the runway used for the prescribed track (i.e. ALS, PAPI) are shown on the chart with their main characteristics (i.e. slope of the PAPI).

**3) Information of SILA**

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

"Simultaneous LDA approaches to RWY22 and RWY23 are in progress."

**4) Radar monitoring**

Radar monitoring is provided for each simultaneous LDA approach to ensure aircraft do not deviate from the localizer course as follows;

- A. Aircraft shall be provided a minimum of 1,000ft vertical separation or a minimum of 3NM radar separation until intercepting localizer course.  
The assigned altitude shall be maintained until final approach fix (FAF).
- B. Radar monitoring is continued even after instructed to contact Tower frequency and instructions prescribed in C are provided on the frequency when necessary.
- C. Aircraft observed to overshoot the turn-on or continue on a track which will penetrate the NTZ will be instructed to return to the correct localizer course. If a deviating aircraft fails to respond to such instructions or is observed penetrating the NTZ, the aircraft on the adjacent localizer course shall be instructed to avoid the deviating aircraft.
- D. Radar monitoring will automatically be terminated when the aircraft has passed the coverage of NTZ (RWY22: IKL 2.7DME / RWY23: MAPt).

Note: ATC will not inform pilots when radar monitoring is terminated.

**5) Go around procedure**

When going around, pilot should report ATC as soon as practicable, and proceed in accordance with the go around procedure described on the chart until receiving ATC instructions.

**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 when situation required.

## 7. SIMULTANEOUS INDEPENDENT RNAV APPROACHES (SIRA)

### 1) Applicable instrument approach procedures for SIRA

RNAV(GNSS) RWY16L, RNAV(GNSS) RWY16R

### 2) Conditions

SIRA, where radar separation minima between aircrafts on adjacent approach courses are not prescribed, will be conducted when the following conditions are met. However, SIRA shall not be applied under certain adverse weather conditions which might affect safe operations (e.g. windshear on the final approach course, etc.).

- A. No Transgression Zone (NTZ) 610m wide is established equidistant between 16R final approach course and 16L final approach course is depicted on the radar display.
- B. Wide Area Multilateration (WAM), radar and appropriate frequencies are operating normally.
- C. Mode S transponder is activating normally. In case of Mode S transponder which has failed or be not equipped, the pilot should inform the ATC facility.

### 3) Information of SIRA

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

"Simultaneous RNAV approaches to RWY16L and RWY16R are in progress."

### 4) Radar monitoring

Radar monitoring is provided for each simultaneous RNAV approach to ensure aircraft do not deviate from the approach course as follows;

- A. Aircraft shall be provided a minimum of 1,000ft vertical separation or a minimum of 3NM radar separation until the following point;  
: Intersection of an extension line of the north short side of NTZ with RWY 16L/R RNAV approach courses.
- B. Radar monitoring is continued even after instructed to contact Tower frequency and instructions prescribed in C are provided on the frequency when necessary.
- C. Aircraft observed to deviate from the approach course or continue on a track which will penetrate the NTZ will be advised by ATC. If a deviating aircraft is observed penetrating the NTZ, the aircraft on the adjacent approach course shall be instructed to avoid the deviating aircraft.
- D. Radar monitoring will automatically be terminated when visual separation is applied by ATC.

Note: ATC will not inform pilots when radar monitoring is terminated.

### 5) Response to "TRAFFIC ALERT"

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

## 8. Category II / III Operations at Tokyo International Airport

### 1) Facilities

The following Categories are available:

Runway 34R
(1) ILS Runway 34R-CAT III
(2) Lighting system Runway 34R-CAT III
(3) 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 Z RWY34R approach (CAT II) For ILS Y RWY34R approach (CAT II)	For ILS Z RWY34R approach (CAT III) For ILS Y RWY34R approach (CAT III)
(1) ILS comprising; <ul style="list-style-type: none"> <li>• ILS-LOC 34R with standby transmitter</li> <li>• ILS-GP 34R with standby transmitter (When any standby transmitters unserviceable, downgrade ILS-CAT I.)</li> <li>• IM 34R (When IM unserviceable, RA could be used as an alternate method.)</li> <li>• ILS-DME 34R</li> </ul>	(1) ILS comprising; <ul style="list-style-type: none"> <li>• ILS-LOC 34R with standby transmitter (including far field monitor)</li> <li>• ILS-GP 34R with standby transmitter (When any standby transmitters or far field monitor unserviceable, downgrade ILS-CAT I.)</li> <li>• ILS-DME 34R</li> </ul>
(2) Lighting systems comprising; <ul style="list-style-type: none"> <li>• PALS 34R (including side row barrettes)</li> <li>• High INTST REDL</li> <li>• High INTST RTHL</li> <li>• RCLL and RTZL</li> </ul>	(2) Lighting systems comprising; <ul style="list-style-type: none"> <li>• PALS 34R (including side row barrettes)</li> <li>• High INTST REDL</li> <li>• High INTST RTHL</li> <li>• RCLL and RTZL</li> </ul>
(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:

- 1) Surface wind speed and direction
- 2) RVR

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

### 3) Operating Minimum

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

### 4) Special Safeguards and Procedures (SSP)

CAT II / III Operations are available when SSP are applied.

SSP will be applied when the following conditions are met:

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

In order to protect Critical Area for the succeeding arrival aircraft, an arrival aircraft may be given the 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 taxiway center line lights change from alternate green and yellow to steady green.

### 5) Approval for CAT II / III Operations

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

## RJTT AD 2.23 ADDITIONAL INFORMATION

1. TV tower  
TV tower 1,148 feet MSL located 6NM NNW of HANEDA VOR/DME (HME)
2. Vehicle traffic line  
White line markings on apron area.
3. Schedule maintenance on the runway  
All RWY are subject to closing for maintenance purpose as follows. See NOTAM RJTT for further detailed information.

FACILITY	PLANNING PERIOD	REMARKS
RWY 16R/34L	MON, WED, THU, SAT, SUN 1400-2130	AVBL CROSS RWY 16R/34L VIA TWY OTHER THAN CLSD TWY
RWY 04/22	MON, TUE, THU, FRI, SUN 1430-2100	AVBL CROSS RWY 04/22 VIA TWY OTHER THAN CLSD TWY
RWY 16L/34R	TUE, FRI 1530-2130	
RWY 05/23	WED 1430-2100 SAT 1700-2100	

4. Bird-patrollers will patrol on perimeter and/or maintenance road around RWYs and occasionally use shotgun and shell crackers to get rid of birds harmful to air safety. Bird-patrollers may enter LDG strips not nearer than 50M FM RWY edges and 20M FM TWY edges to pick up birds being shot down HJ.
5. Positions not visible from control tower.
  - a) Aircraft stand  
From NR201 to NR205.
  - b) Taxiway  
A part of TWY A(from spot NR201 to spot RU6) and a part of TWY W(from spot NR201 to NR203).
6. 空港付近の船舶の航行
  - 6.1 RWY04/22 及び RWY05/23 の北東側に船舶高基準面と許容高が設定される。
  - 6.2 航空機の運航に影響がある高さの船舶が、RWY22 または RWY23 の進入表面下を航行することがあり、これらの船舶は空港当局により監視されている。必要に応じて以下の対応が取られる。  
(添付図参照)
    - a) RWY04 及び RWY05 からの離陸は許可されない。
    - b) RWY22 及び RWY23 への到着機に対して空中待機または復行が指示されることがある。
  6. Passage of vessel in the vicinity of the airport
    - 6.1 Base level of Vessel height and Admissible height is set at Northeast side of RWY 04/22 or RWY 05/23.
    - 6.2 The Vessel with height which affects aircraft operations may pass across beneath the approach surface of RWY22 or RWY23, and those vessels are monitored by Airport authority. The following action will be taken when necessary.  
(see attached chart)

## 東京西航路

- 1) 当該進入表面下に設定された東京西航路を航行する船舶の情報は、RJTT NOTAM または ATC により提供される。
- 2) 船舶が A 点と B 点または C 点と D 点の間を通過する間、下記の制限がかかる。
  - a) RWY04 及び RWY05 からの離陸は許可されない。
  - b) RWY22 及び RWY23 への到着機に対して空中待機または復行が指示されることがある。

## 側傍海域

- 船舶が、東京西航路と進入灯の間の進入表面下を通過する場合には、船舶の高さ及び位置により、以下の制限がかかる。
- a) RWY04 及び RWY05 からの離陸は許可されない。
  - b) RWY22 及び RWY23 への到着機に対して復行が指示されることがある。

## Tokyo West Passage Route

- (1) The information of the vessel passing along the Tokyo West Passage Route, which is laid down beneath the approach surfaces, will be provided by NOTAM RJTT or ATC.
- (2) While the vessel is between point A and B or between point C and D, following restrictions are taken;
  - a) Take-off clearance is not issued for RWY04 or RWY05.
  - b) Holding or Go-around instruction may be issued for arrival aircraft for RWY22 or RWY23.

## Adjacent sea area

When a vessel passes across beneath approach surface between approach lights and Tokyo West Passage Route, depending on height and position of the vessel, following restrictions are taken;

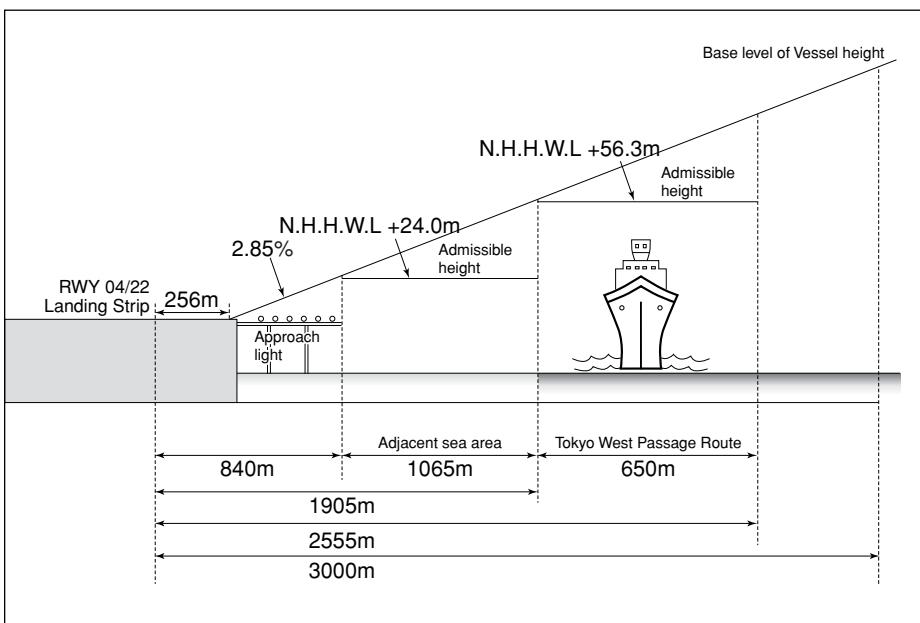
- a) Take-off clearance is not issued for RWY04 or RWY05.
- b) Go-around instruction may be issued for RWY22 or RWY23.

## (断面図)

- 航空機の運航に影響がある高さの船舶：  
側傍海域にあっては、N.H.H.W.L + 24.0m以上の船舶  
東京西航路にあっては、N.H.H.W.L + 56.3m以上の船舶
- N.H.H.W.L：満潮時でこれより高くなないと想定される潮位

## (profile view)

- The Vessel height which affects aircraft operations adjacent sea area:  
Vessel height is at or above N.H.H.W.L + 24.0m  
Tokyo West Passage Route:  
Vessel height is at or above N.H.H.W.L + 56.3m
- N.H.H.W.L: Nearly Highest High Water Level

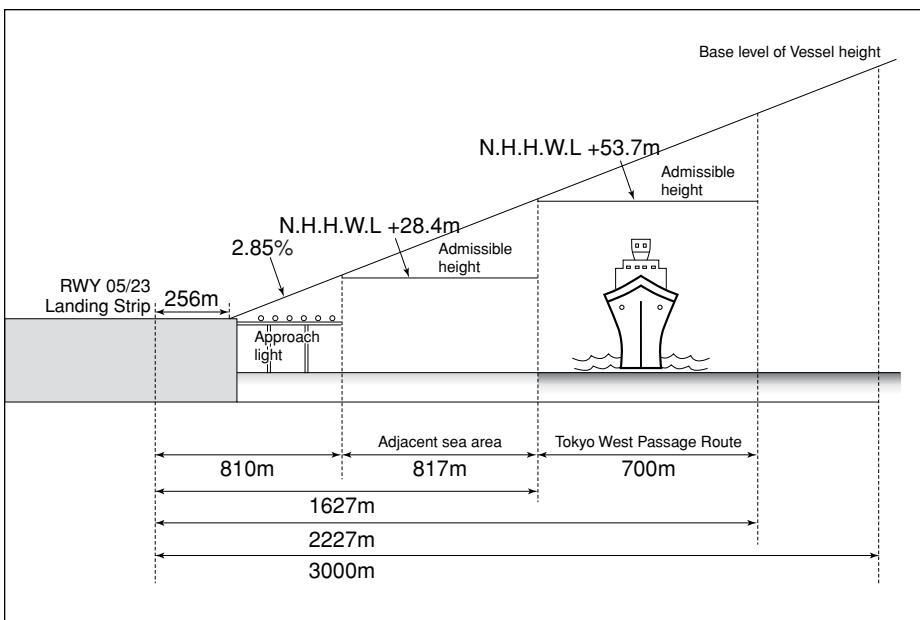


## (断面図)

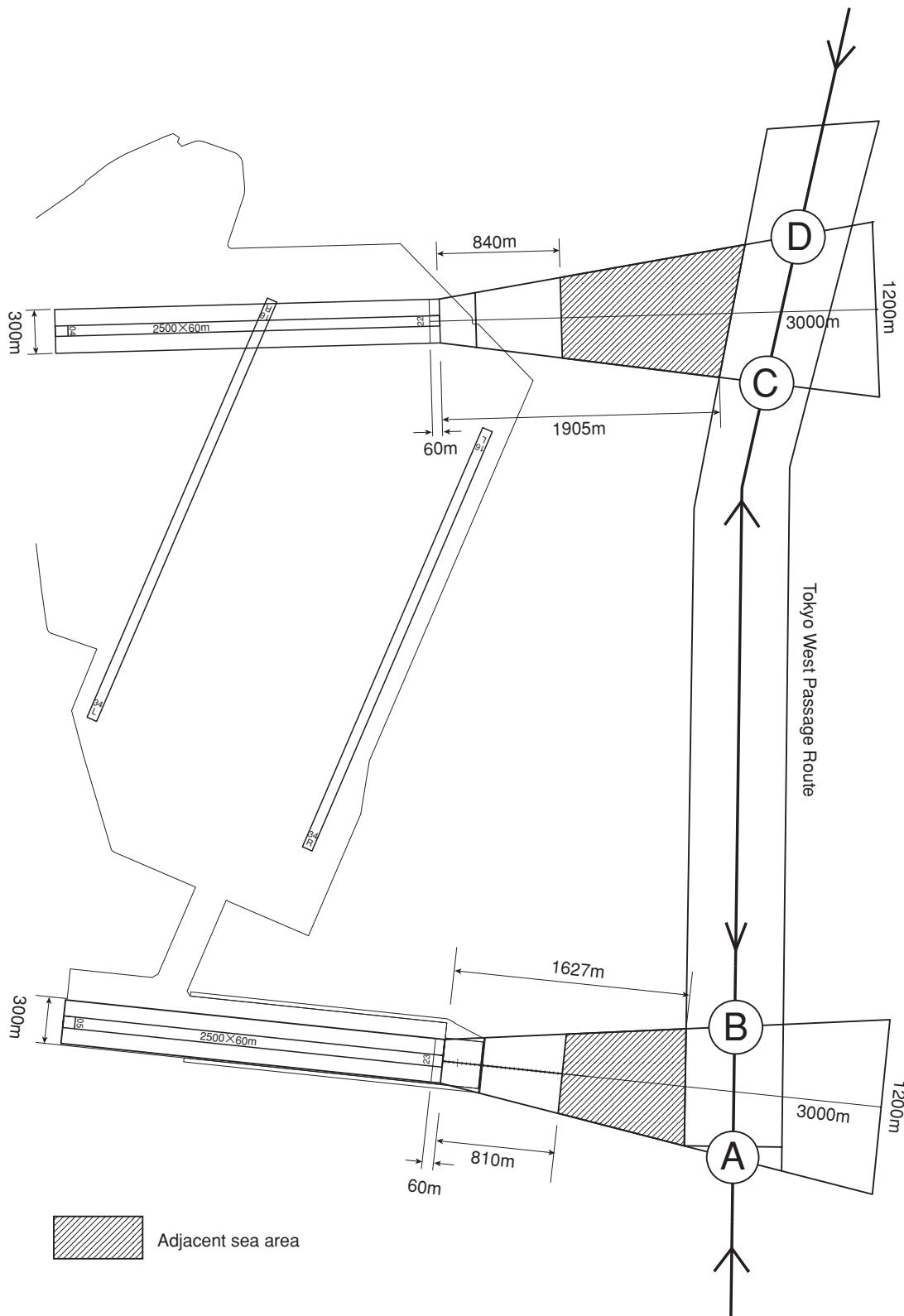
- 航空機の運航に影響がある高さの船舶：  
側傍海域にあっては、N.H.H.W.L + 28.4m以上の船舶  
東京西航路にあっては、N.H.H.W.L + 53.7m以上の船舶
- N.H.H.W.L：満潮時でこれより高くなないと想定される潮位

## (profile view)

- The Vessel height which affects aircraft operations adjacent sea area:  
Vessel height is at or above N.H.H.W.L + 28.4m  
Tokyo West Passage Route:  
Vessel height is at or above N.H.H.W.L + 53.7m
- N.H.H.W.L: Nearly Highest High Water Level



### Tokyo West passage Route and Adjacent sea area



## 7. 航空機重量制限

滑走路 05/23 を使用する航空機においては、航空機重量、主脚荷重及び輪荷重の全てが下表の値を超えてはならない。

航空機重量		主脚荷重		輪荷重	
(lb)	(kg)	(lb/ 脚)	(kg/ 脚)	(lb/ 輪)	(kg/ 輪)
881,800	400,000	307,500	139,500	57,700	26,200

注) RJTT AD2.20.1.2 LOCAL TRAFFIC REGULATIONS (3), (11) 及び AD2.21.2 Noise Preferential Runways を参照

## 7. Aircraft weight restriction

When using RWY 05/23, all of the values of aircraft (aircraft weight, main gear load AND wheel load) shall not exceed the values listed in the table below.

Aircraft weight		Main gear load		Wheel load	
(lb)	(kg)	(lb/gear)	(kg/gear)	(lb/wheel)	(kg/wheel)
881,800	400,000	307,500	139,500	57,700	26,200

There are other restrictions for using runway(see RJTT AD2.20.1.2 LOCAL TRAFFIC REGULATIONS (3), (11) and RJTT AD2.21.2 Noise Preferential Runways.).

誘導路 Q を使用する航空機においては、コード Dまでの航空機（翼幅が 52m 未満）の使用に限ることとし、航空機重量、主脚荷重及び輪荷重の全てが下表の値を超えてはならない。

航空機重量		主脚荷重		輪荷重	
(lb)	(kg)	(lb/ 脚)	(kg/ 脚)	(lb/ 輪)	(kg/ 輪)
570,900	259,000	215,300	97,700	49,100	22,300

When passing TWY Q, the wing span of aircraft shall be less than 52m and all of the values of aircraft (aircraft weight, main gear load AND wheel load) shall not exceed the values listed in the table below.

Aircraft weight		Main gear load		Wheel load	
(lb)	(kg)	(lb/gear)	(kg/gear)	(lb/wheel)	(kg/wheel)
570,900	259,000	215,300	97,700	49,100	22,300

## 8. EMAS (Engineered Materials Arresting Systems)

EMAS, which has high energy-absorbing performance, is located in the overrun area and RESA of the runway. EMAS will exert deceleration force on the landing gear to reduce the damage in case of overrun of an airplane. EMAS is installed with overrun area marking. These systems do not affect the normal landing and takeoff of airplanes.

## 9. 双方向に設置されている ILS の輻射について

## 1) ILS 16L / 34R

SSP 体制時を除き、RWY16L および 34R ILS は同時に輻射する。  
(RJTT AD2.22 8.Category II /III Operations at Tokyo International Airport を参照)

## 2) ILS 16R / 34L

RWY16R 運用時を除き、RWY16R および 34L ILS は同時に輻射する。

## 9. Two separate ILS radiate at opposite ends of a single runway

## 1) ILS 16L / 34R

RWY16L and 34R ILS radiate simultaneously except when SSP are applied.

(See RJTT AD2.22 8.Category II /III Operations at Tokyo International Airport)

## 2) ILS 16R / 34L

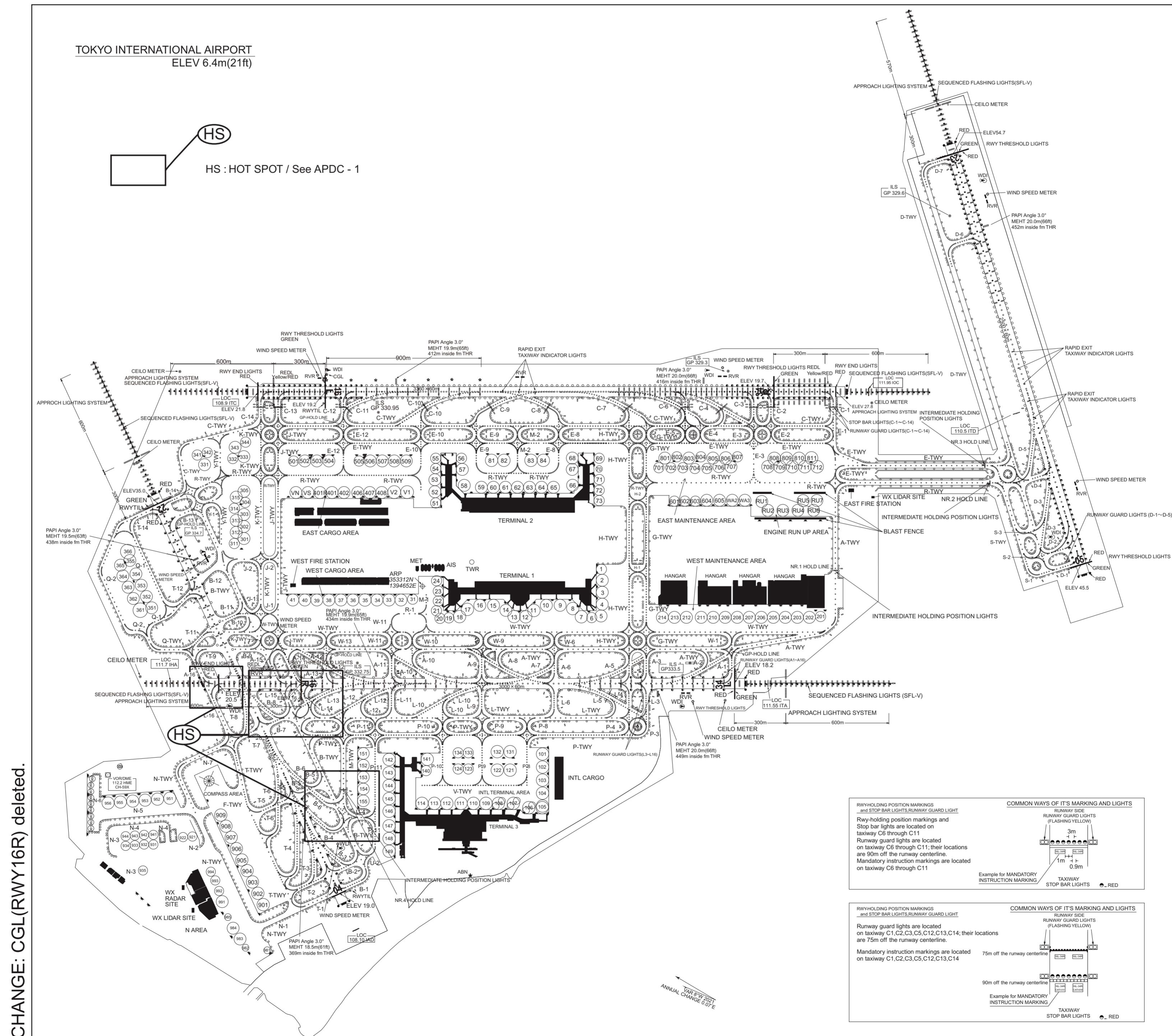
RWY16R and 34L ILS radiate simultaneously except when operating RWY16R.

**RJTT AD 2.24 CHARTS RELATED TO AN AERODROME**

Aerodrome Chart-1  
Aerodrome Chart-2  
Aircraft Parking/Docking Chart  
Aerodrome Obstacle Chart-ICAO type A (RWY16R/34L)  
Aerodrome Obstacle Chart-ICAO type A (RWY22)  
Aerodrome Obstacle Chart-ICAO type A (RWY04)  
Aerodrome Obstacle Chart-ICAO type A (RWY34R)  
Aerodrome Obstacle Chart-ICAO type A (RWY16L)  
Aerodrome Obstacle Chart-ICAO type A (RWY05/23)  
Aerodrome Obstacle Chart-ICAO type B  
Precision Approach Terrain Chart (RWY34R)  
Standard Departure Chart - Instrument (SEKIYADO)  
Standard Departure Chart - Instrument (VADAR)  
Standard Departure Chart - Instrument (OPPAR)  
Standard Departure Chart - Instrument (ISOGO)  
Standard Departure Chart - Instrument (VAMOS-RNAV)  
Standard Departure Chart - Instrument (LAXAS-RNAV)  
Standard Departure Chart - Instrument (NINOX-RNAV)  
Standard Departure Chart - Instrument (RITLA-A/B/C-RNAV)  
Standard Departure Chart - Instrument (BEKLA-A/B/C-RNAV)  
Standard Departure Chart - Instrument (ROVER-A/B/C-RNAV)  
Standard Departure Chart - Instrument (RUTAS-RNAV)  
Standard Arrival Chart - Instrument (SINGO, DOYLE, ADDUM, BONUS)  
Standard Arrival Chart - Instrument (OSHIMA-1A/1K/2C-RNAV)  
Standard Arrival Chart - Instrument (AKSEL-1A/1K/2C-RNAV)  
Standard Arrival Chart - Instrument (AROSA-1A/1K/2C-RNAV)  
Standard Arrival Chart - Instrument (GODIN -2A/2K/1C-RNAV)  
Standard Arrival Chart - Instrument (POLIX-2A/2K/1C-RNAV)  
Standard Arrival Chart - Instrument (OSHIMA, AKSEL, AROSA-2H-RNAV)  
Standard Arrival Chart - Instrument (GODIN, POLIX-1H-RNAV)  
Standard Arrival Chart - Instrument (OSHIMA-1N/2N-RNAV)  
Standard Arrival Chart - Instrument (OSHIMA-1B/2B-RNAV)  
Standard Arrival Chart - Instrument (AKSEL-1N/2N-RNAV)  
Standard Arrival Chart - Instrument (AKSEL-1B/2B-RNAV)  
Standard Arrival Chart - Instrument (AROSA-1N/2N-RNAV)  
Standard Arrival Chart - Instrument (AROSA-1B/2B-RNAV)  
Standard Arrival Chart - Instrument (GODIN-1S/1D-RNAV)  
Standard Arrival Chart - Instrument (POLIX-1S/1D-RNAV)  
Standard Arrival Chart - Instrument (OSHIMA-L/R-RNAV)  
Standard Arrival Chart - Instrument (AKSEL-L/R-RNAV)  
Standard Arrival Chart - Instrument (AROSA-L/R-RNAV)  
Standard Arrival Chart - Instrument (GODIN-L/R-RNAV)  
Standard Arrival Chart - Instrument (POLIX-L/R-RNAV)  
Standard Arrival Chart - Instrument (OSHIMA, AKSEL, AROSA, MESSE-NIGHT-RNAV)  
Standard Arrival Chart - Instrument (OSHIMA, AKSEL, AROSA, MESSE-V-RNAV)  
Instrument Approach Chart (ILS Z RWY34L)  
Instrument Approach Chart (LOC Z RWY34L)  
Instrument Approach Chart (ILS Y RWY34L)  
Instrument Approach Chart (LOC Y RWY34L)  
Instrument Approach Chart (ILS X RWY34L)  
Instrument Approach Chart (LOC X RWY34L)  
Instrument Approach Chart (VOR RWY34L)  
Instrument Approach Chart (ILS Z RWY34R(CAT II & III))  
Instrument Approach Chart (LOC Z RWY34R)  
Instrument Approach Chart (ILS Y RWY34R(CAT II & III))  
Instrument Approach Chart (LOC Y RWY34R)  
Instrument Approach Chart (ILS RWY22)  
Instrument Approach Chart (LOC RWY22)  
Instrument Approach Chart (LDA Z RWY22)  
Instrument Approach Chart (LDA Y RWY22)  
Instrument Approach Chart (LDA X RWY22)  
Instrument Approach Chart (LDA W RWY22)  
Instrument Approach Chart (ILS Z RWY23)  
Instrument Approach Chart (LOC Z RWY23)  
Instrument Approach Chart (ILS Y or LOC Y RWY23)  
Instrument Approach Chart (LDA Z RWY23)  
Instrument Approach Chart (LDA Y RWY23)  
Instrument Approach Chart (LDA X RWY23)

Instrument Approach Chart (LDA W RWY23)  
Instrument Approach Chart (RNAV(RNP) RWY23)  
Instrument Approach Chart (ILS or LOC RWY16R)  
Instrument Approach Chart (RNAV(GNSS) RWY16R)  
Instrument Approach Chart (ILS or LOC RWY16L)  
Instrument Approach Chart (RNAV(GNSS) RWY16L)  
Instrument Approach Chart (VOR A)  
Other Chart (HIGHWAY VISUAL RWY34R)  
Other Chart (HOLDING PATTERN)  
Other Chart (HOLDING PATTERN-RNAV)  
Other Chart (Visual REP)  
Other Chart (MVA CHART)  
Other Chart (LDG CHART)  
Other Chart (Kawasaki Petrochemical Complex(ATTACHMENT-1))

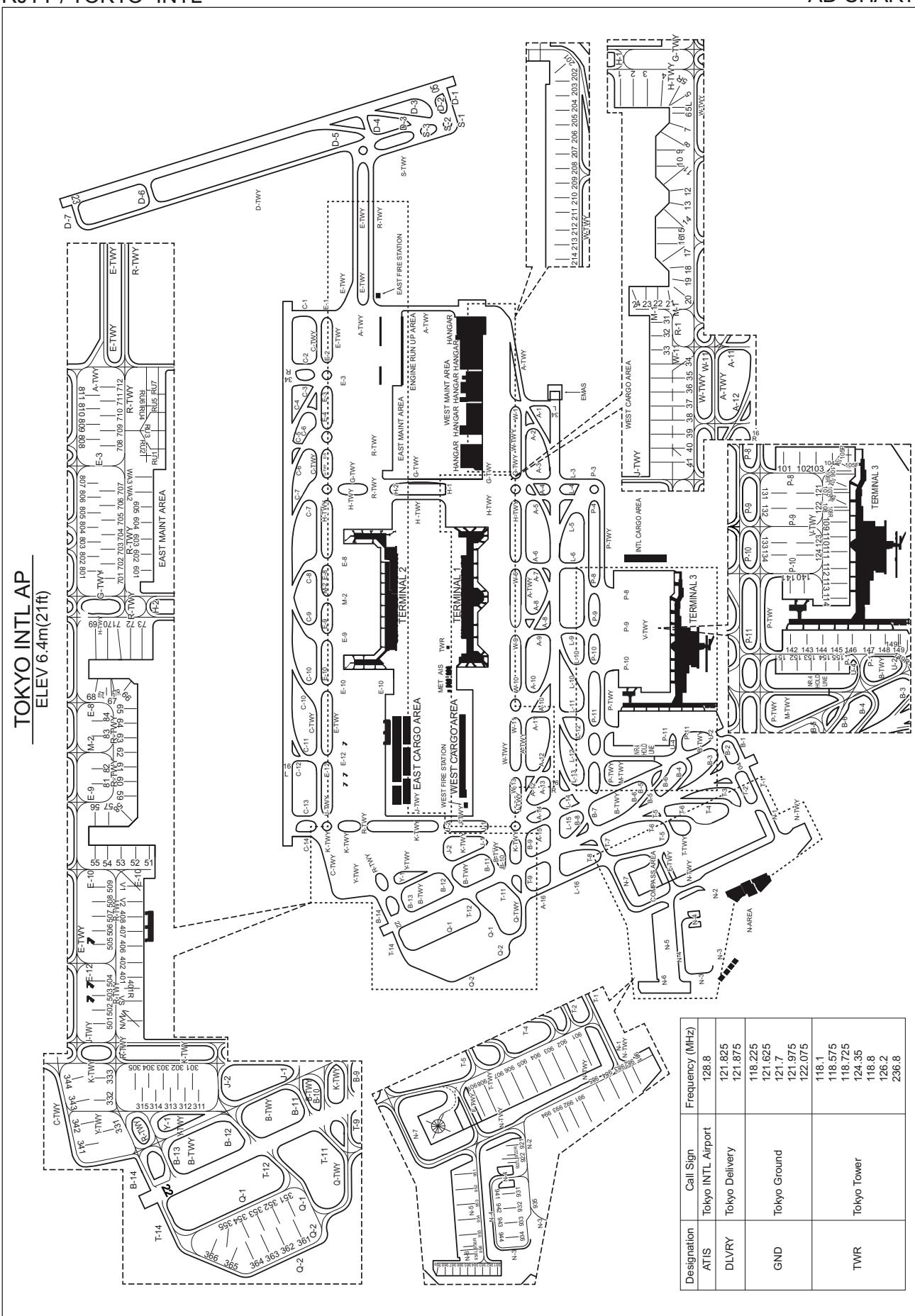
## AERODROME CHART



RJTT / TOKYO INTL

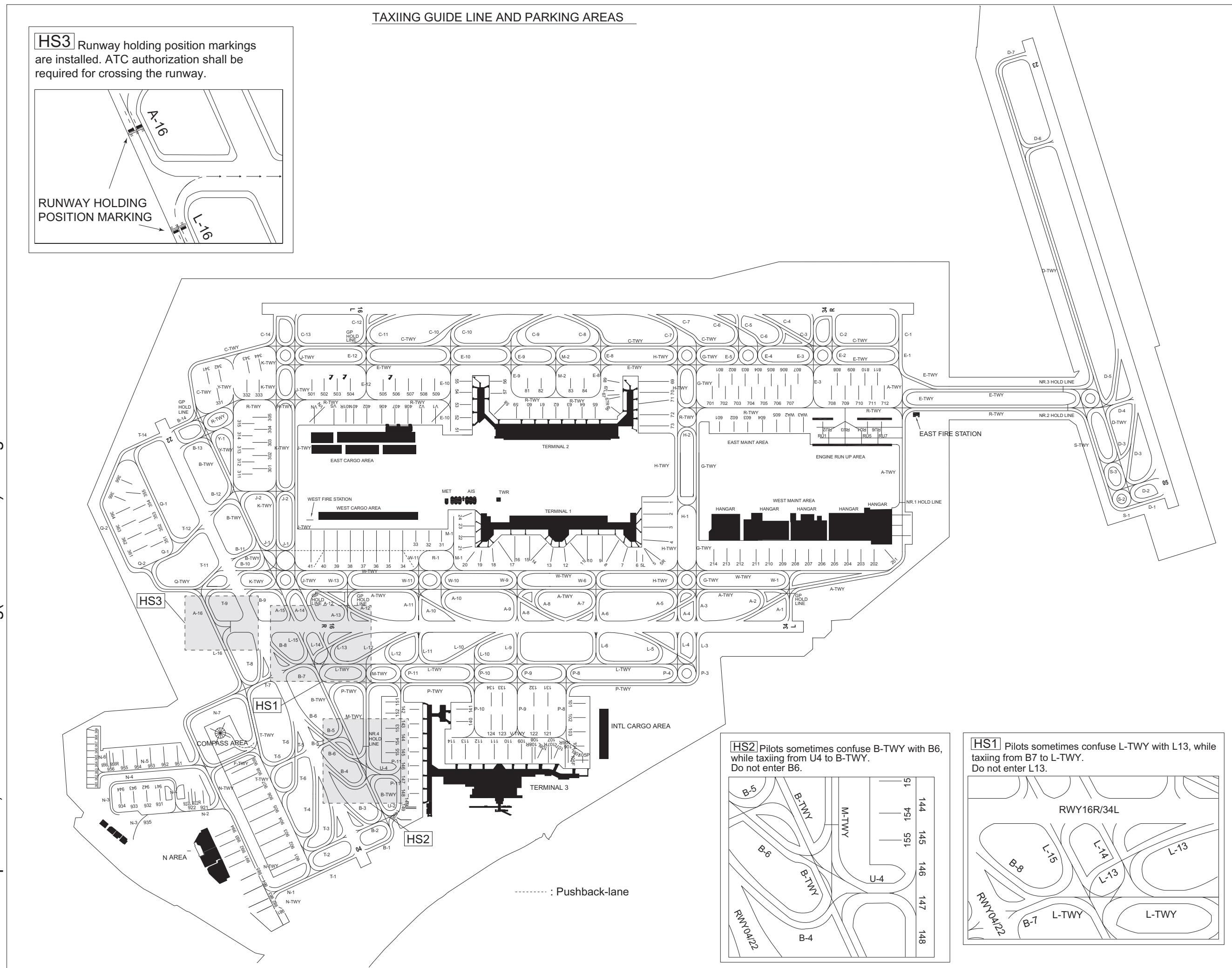
AD CHART

CHANGE: Spot 149R, 149L installed. Building(TERMINAL 3) enlarged.



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CHANGE: Spot 149R, 149L installed. Building(TERMINAL 3) enlarged.



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A(OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A(OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 7°W-APR 2015



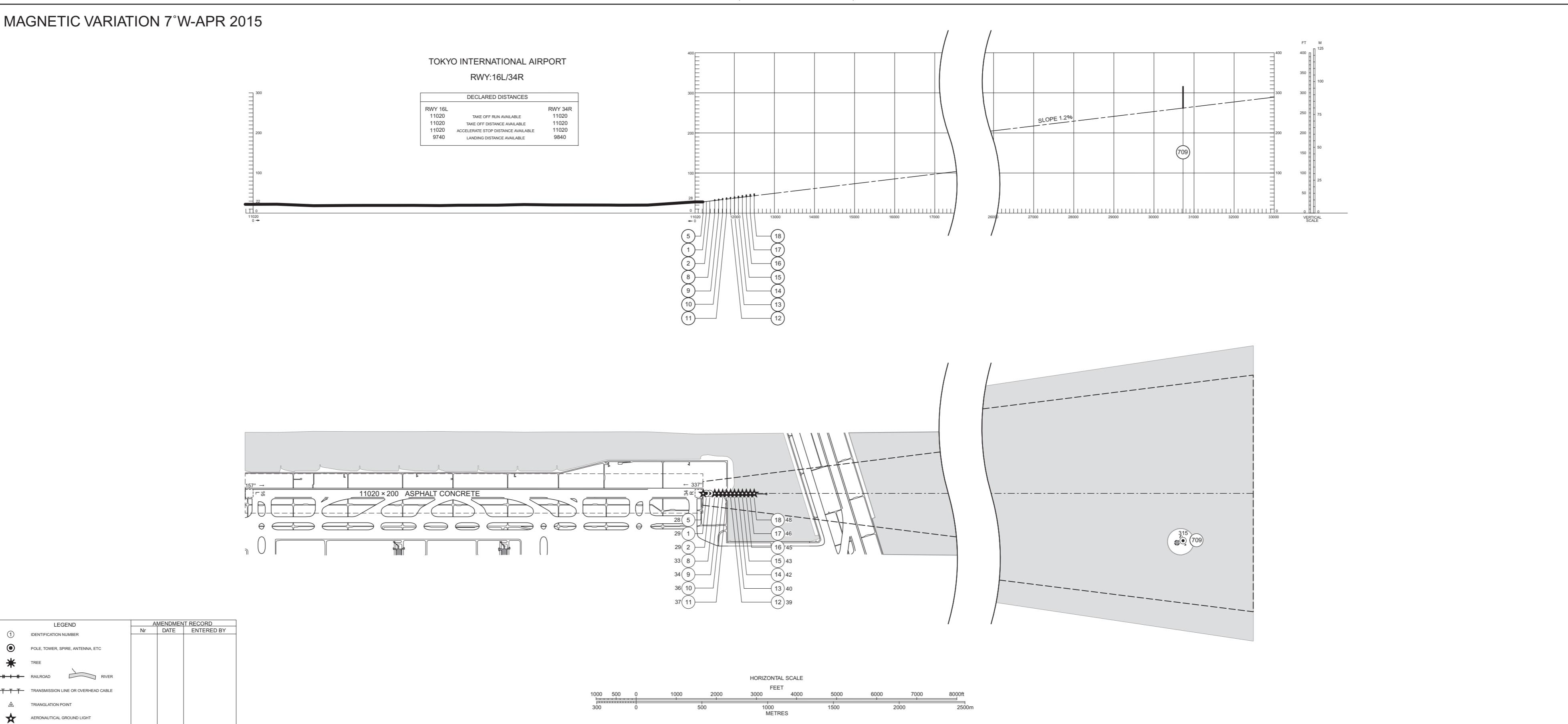
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)



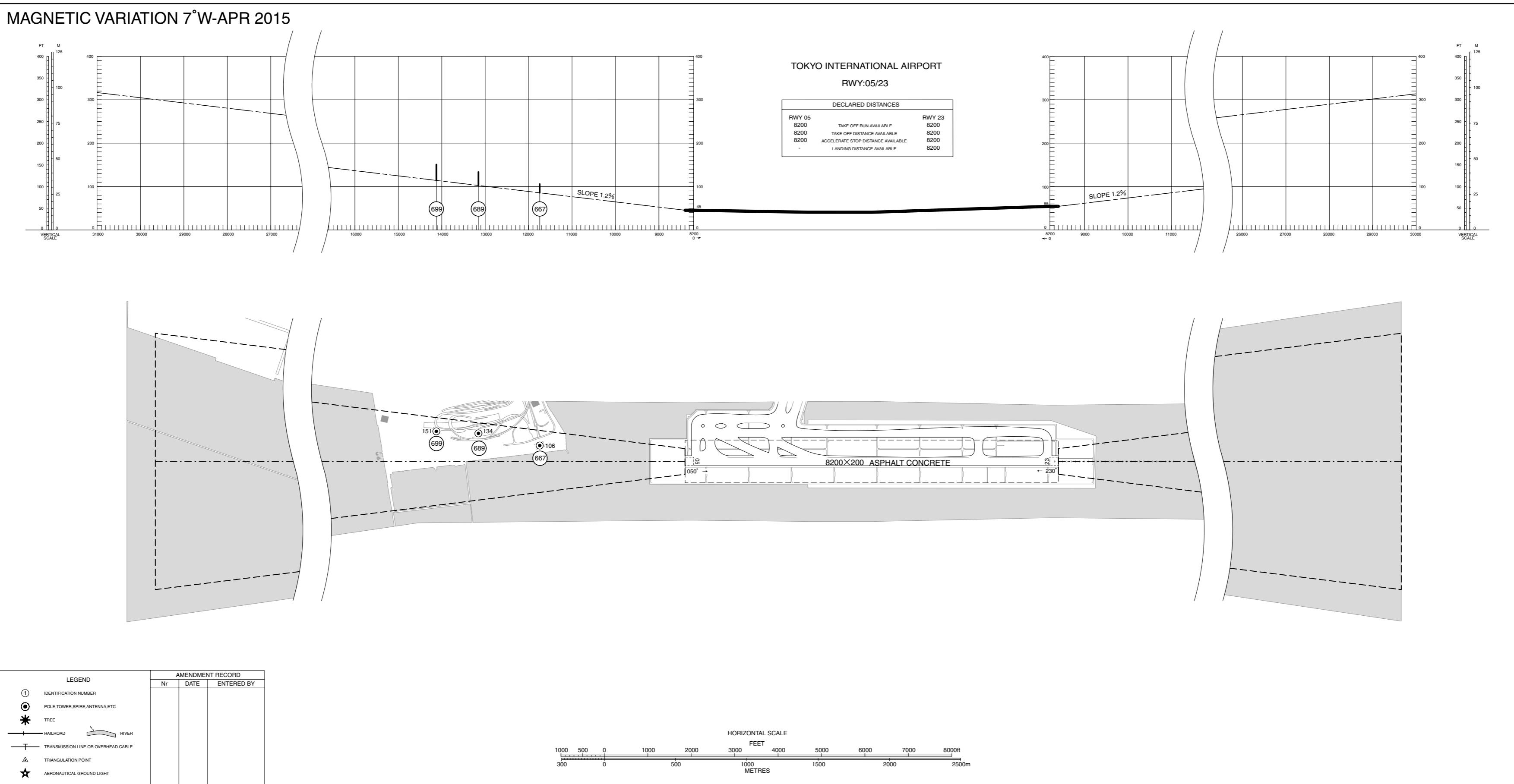
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A(OPERATING LIMITATIONS)

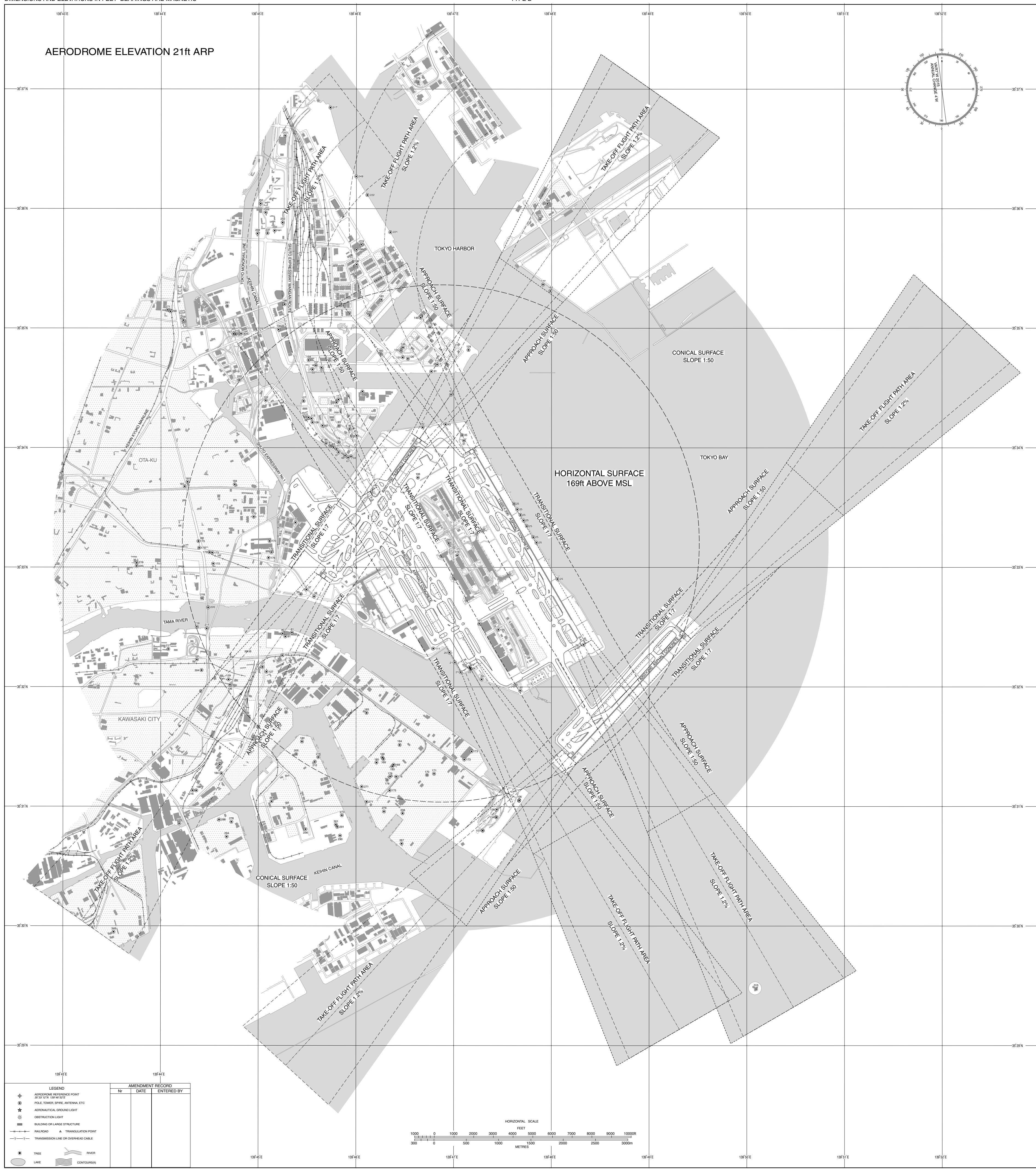


DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A(OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE B

## PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

SEKIYADO THREE DEPARTURE

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

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

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

Note RWY34R/34L/04: 5.0% climb gradient required up to 700FT.  
RWY05: 5.0% climb gradient required up to 500FT.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

VADAR ONE DEPARTURE

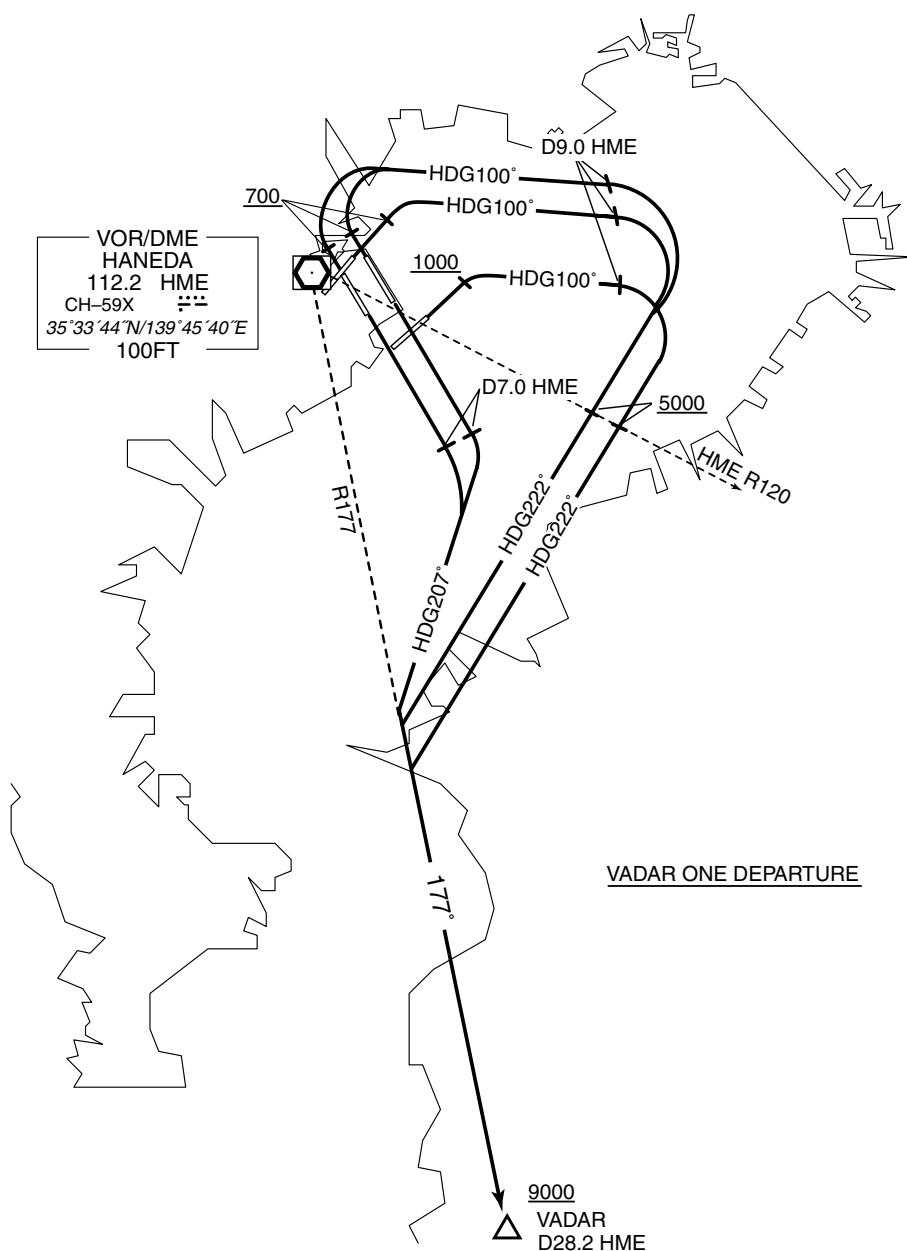
RWY04/34R/34L: Climb RWY HDG to 700FT, turn right HDG100° to HME 9.0DME, turn right HDG222° to intercept and proceed via HME R177 to VADAR.  
Cross HME R120 at or above 5000FT, cross VADAR at or above 9000FT.

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

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

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

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

OPPAR THREE DEPARTURE

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

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

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

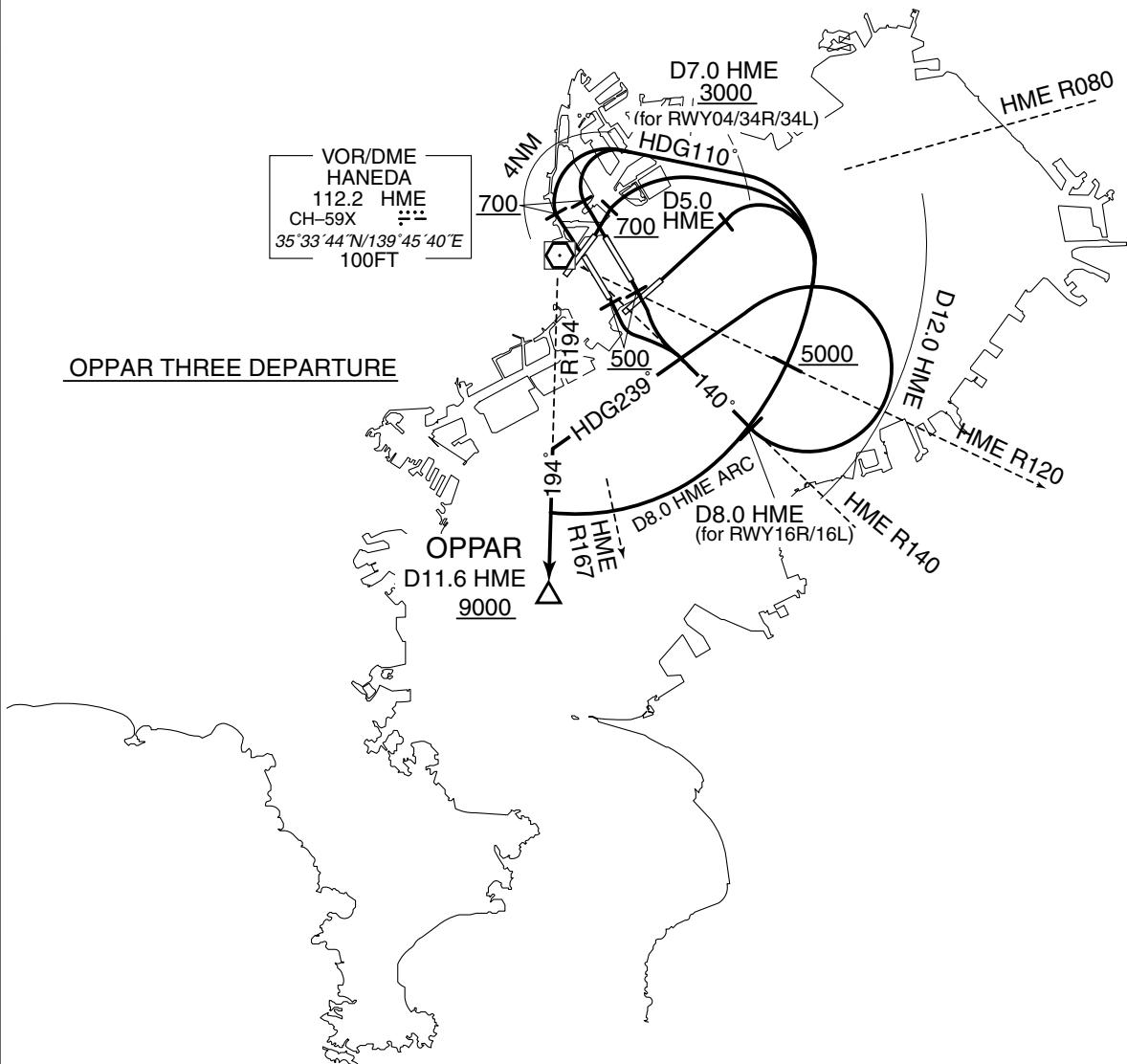
Cross OPPAR at or above 9000FT.

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

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

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

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



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV TRANSITION

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

VAR 7° W(2016)

JYOGA TRANSITION

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

UTIBO TRANSITION

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV TRANSITION

JYOGA TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	OPPAR	—	—	-7.4	—	—	+9000	—	—	RNAV1
002	TF	JYOGA	—	224 (217.1)	-7.4	16.9	—	+FL150	—	—	RNAV1

UTIBO TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	OPPAR	—	—	-7.4	—	—	+9000	—	—	RNAV1
002	TF	UTIBO	—	170 (162.7)	-7.4	26.7	—	+FL150	—	—	RNAV1

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STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

ISOGO TWO DEPARTURE (FOR PROP ONLY)

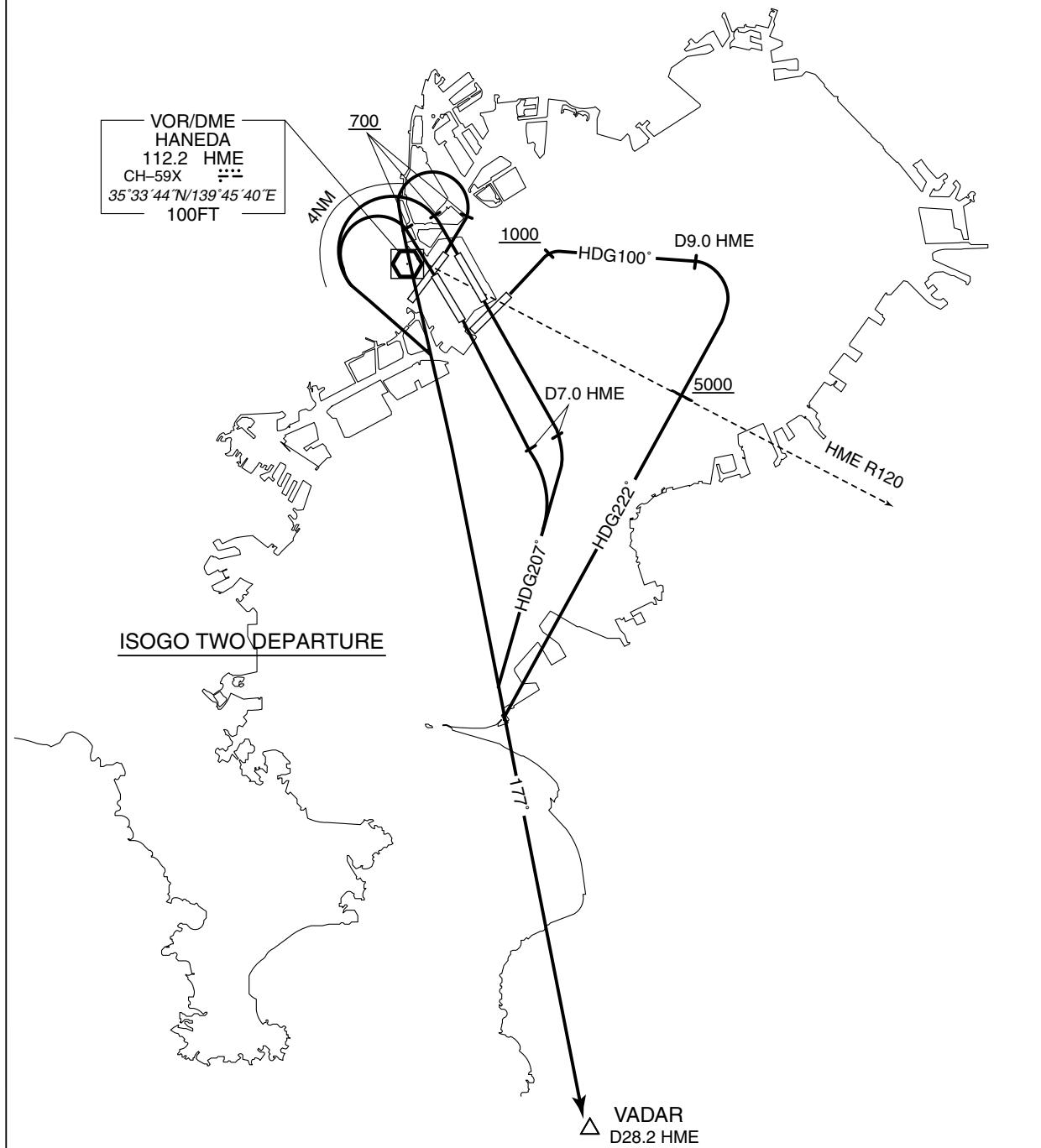
RWY04/34R/34L: Climb RWY HDG to 700FT or above, turn left within 4NM, climb via HME R177 to VADAR.

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

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

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

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



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

TRANSITION

OSHIMA TRANSITION

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

CHIKURA TRANSITION

From over VADAR, via HME R177 to UTIBO.



STANDARD DEPARTURE CHART-INSTRUMENT

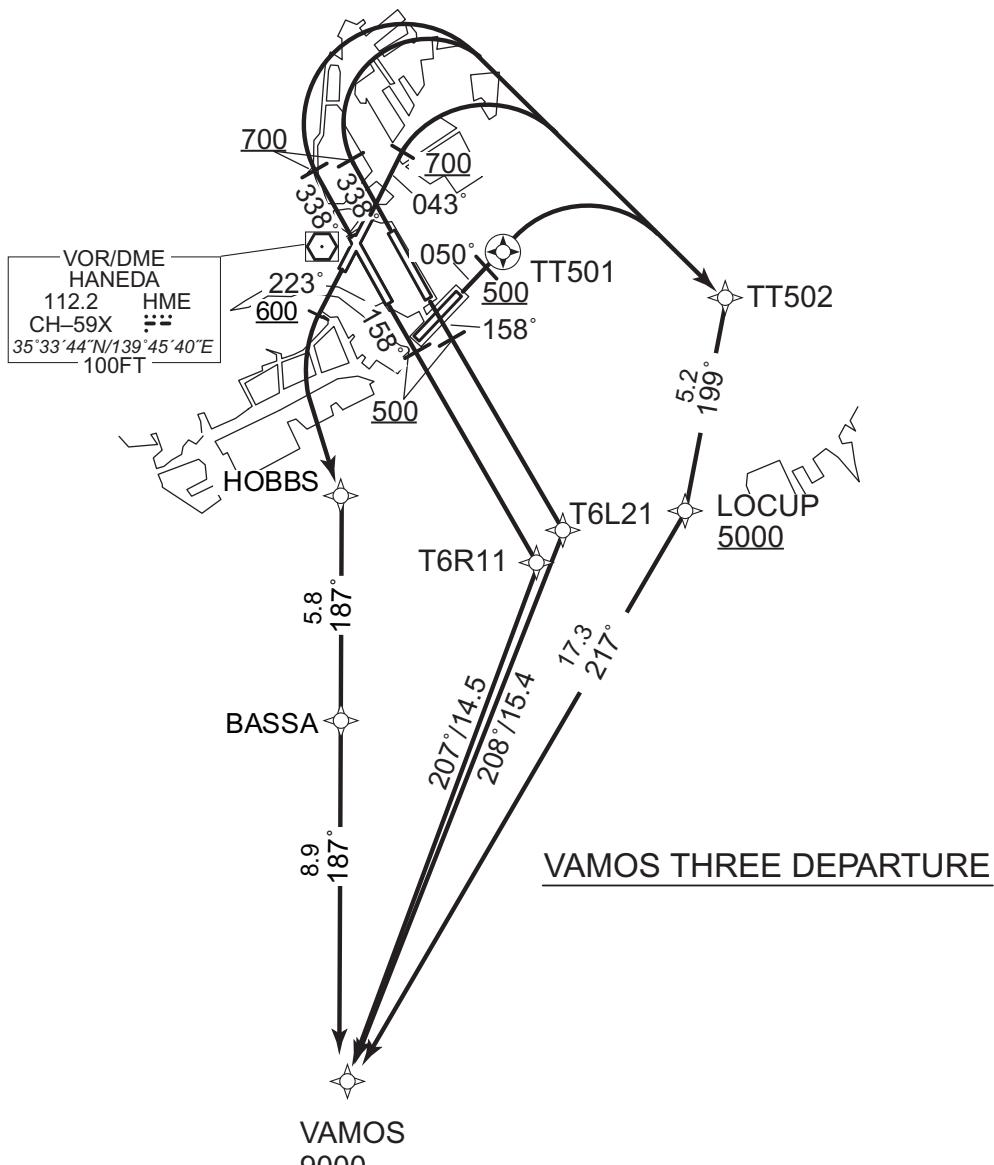
RJTT/TOKYO INTL

RNAV SID

VAMOS THREE DEPARTURE		RNAV SID
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RNAV1
DME GAP  RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER RWY22:DER - 1.4NM FM DER		RWY16R:HME 1.2NM FM DER - 1.9NM to T6R11 RWY16L:HME 1.0NM FM DER - 2.4NM to T6L21 RWY34R:HME 1.0NM FM DER - 2.5NM to TT502 RWY34L:HME 0.5NM FM DER - 2.5NM to TT502 RWY04:HME 1.7NM FM DER - 2.5NM to TT502 RWY05:HME DER - 2.7NM to TT502
Inappropriate Navaids  See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8°W(2020)

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04,22. Course FM TT502 to LOCUP.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS THREE DEPARTURE

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

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

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

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

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

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

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

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

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

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS THREE DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	207 (199.5)	-7.6	14.5	—	+9000	—	—	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	208 (200.7)	-7.6	15.4	—	+9000	—	—	RNAV1

## RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.6	17.3	—	+9000	—	—	RNAV1

## RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	043 (034.9)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.6	17.3	—	+9000	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY34L/RWY34R:NR003(Course), RWY04:NR001,003(Course).

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M('T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	VAMOS	—	217 (209.5)	-7.6	17.3	—	+9000	—	—	RNAV1

## RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M('T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	223 (214.9)	-7.6	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	BASSA	—	187 (179.9)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	VAMOS	—	187 (179.9)	-7.6	8.9	—	+9000	—	—	RNAV1

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL		RNAV TRANSITION
TATEYAMA TRANSITION / DRAKY TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required.  2) RADAR service required.	Critical DME	—
DME GAP	—	—
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	—
VAR8°W(2019)		
<p>The chart shows the departure routes from OSHIMA (XAC). The DRAKY TRANSITION route goes from OSHIMA (XAC) to DRAKY via a bearing of 218°, then to VAMOS (9000ft) via a bearing of 222°. The TATEYAMA TRANSITION route goes from OSHIMA (XAC) to TATEYAMA via a bearing of 218°, then to UTIBO via a bearing of 068°. The RNAV1 route goes directly from OSHIMA (XAC) to VAMOS (9000ft) via a bearing of 222°. The chart also includes information for VORTAC OSHIMA (113.1, CH-78X, 34°42'44"N/139°24'50"E, 2100FT), TACAN TATEYAMA (986, CH-25X, 34°58'15"N/139°50'17"E, 500FT), and DME TATEYAMA (1159, CH-72X, 34°56'46"N/139°53'43"E, 600FT).</p>		

CHANGE : New PROC

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV TRANSITION

TATEYAMA TRANSITION

From VAMOS at or above 9000FT, to UTIBO.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	VAMOS	–	–	-7.5	–	–	+9000	–	–	RNAV1
002	TF	UTIBO	–	165 (157.0)	-7.5	16.8	–	–	–	–	RNAV1

DRAKY TRANSITION

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	VAMOS	–	–	-7.5	–	–	+9000	–	–	RNAV1
002	TF	DRAKY	–	218 (210.2)	-7.5	22.2	–	–	–	–	RNAV1
003	TF	XAC	–	218 (210.1)	-7.5	11.9	–	–	–	–	RNAV1

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS THREE DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY16R: HME 1.2NM FM DER - 1.9NM to T6R11 HYD T6R11 - TAURA RWY16L: HME 1.0NM FM DER - 2.4NM to T6L21 HYD 9.0NM to TAURA - TAURA RWY34R: HME 1.0NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY34L: HME 0.5NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY04: HME 1.7NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY05: HME DER - 2.7NM to TT502 HYD 8.6NM to TAURA - TAURA
DME GAP		RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER RWY05:DER - 1.4NM FM DER
Inappropriate Navaids		See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR8°W(2020)

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04,22. Course FM TT502 to LOCUP. Course FM BASSA to UMUKI.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS THREE DEPARTURE

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

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

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

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

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

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

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

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

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

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS THREE DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	TAURA	—	226 (218.1)	-7.6	9.0	—	+9000	—	—	RNAV1
004	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
005	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	TAURA	—	226 (218.1)	-7.6	10.0	—	+9000	—	—	RNAV1
004	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
005	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY34L/RWY34R.NR003(Course).

## RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	TAURA	—	235 (227.3)	-7.6	12.6	—	+9000	—	—	RNAV1
005	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
006	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	043 (034.9)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	TAURA	—	235 (227.3)	-7.6	12.6	—	+9000	—	—	RNAV1
005	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
006	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

## RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TAURA	—	235 (227.3)	-7.6	12.6	—	+9000	—	—	RNAV1
006	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
007	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY04:NR001,003(Course). RWY05:NR004(Course).

## STANDARD DEPARTURE CHART-INSTRUMENT

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RNAV SID

RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	223 (214.9)	-7.6	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	BASSA	—	187 (179.9)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	UMUKI	—	172 (163.9)	-7.6	9.2	—	—	—	—	RNAV1
005	TF	PIPER	—	235 (227.4)	-7.6	3.5	—	+9000	—	—	RNAV1
006	TF	SATOL	—	235 (227.4)	-7.6	5.5	—	—	—	—	RNAV1
007	TF	IMOLA	—	266 (258.7)	-7.6	9.1	—	+FL150	—	—	RNAV1
008	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY22:NR001,004(Course).

Waypoint Coordinates

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

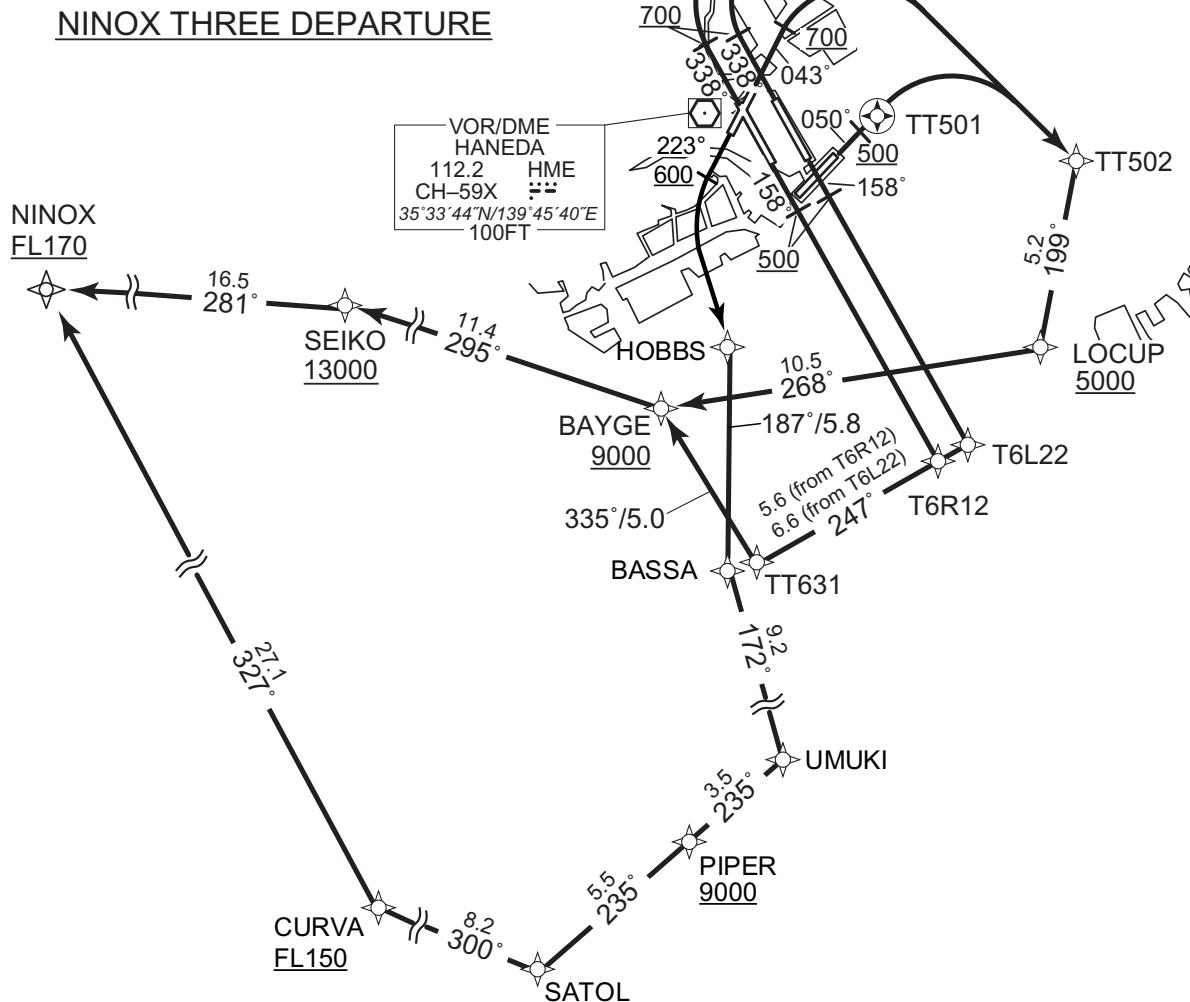
## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

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

VAR8°W(2020)



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX THREE DEPARTURE

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

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

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

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

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

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

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

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

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

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX THREE DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R12	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	TT631	—	247 (239.8)	-7.6	5.6	—	—	—	—	RNAV1
004	TF	BAYGE	—	335 (327.0)	-7.6	5.0	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.6	16.5	—	+FL170	—	—	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L22	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	TT631	—	247 (239.8)	-7.6	6.6	—	—	—	—	RNAV1
004	TF	BAYGE	—	335 (327.0)	-7.6	5.0	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.6	16.5	—	+FL170	—	—	RNAV1

## RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	BAYGE	—	268 (260.6)	-7.6	10.5	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.6	16.5	—	+FL170	—	—	RNAV1

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	043 (034.9)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	BAYGE	—	268 (260.6)	-7.6	10.5	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.6	16.5	—	+FL170	—	—	RNAV1

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	BAYGE	—	268 (260.6)	-7.6	10.5	—	+9000	—	—	RNAV1
006	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
007	TF	NINOX	—	281 (272.9)	-7.6	16.5	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY04:NR001,003,006(Course). RWY05:NR004,007(Course).

## STANDARD DEPARTURE CHART-INSTRUMENT

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RNAV SID

RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M('T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	223 (214.9)	-7.6	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	BASSA	—	187 (179.9)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	UMUKI	—	172 (163.9)	-7.6	9.2	—	—	—	—	RNAV1
005	TF	PIPER	—	235 (227.4)	-7.6	3.5	—	+9000	—	—	RNAV1
006	TF	SATOL	—	235 (227.4)	-7.6	5.5	—	—	—	—	RNAV1
007	TF	CURVA	—	300 (292.2)	-7.6	8.2	—	+FL150	—	—	RNAV1
008	TF	NINOX	—	327 (319.6)	-7.6	27.1	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY22:NR001,004(Course).

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

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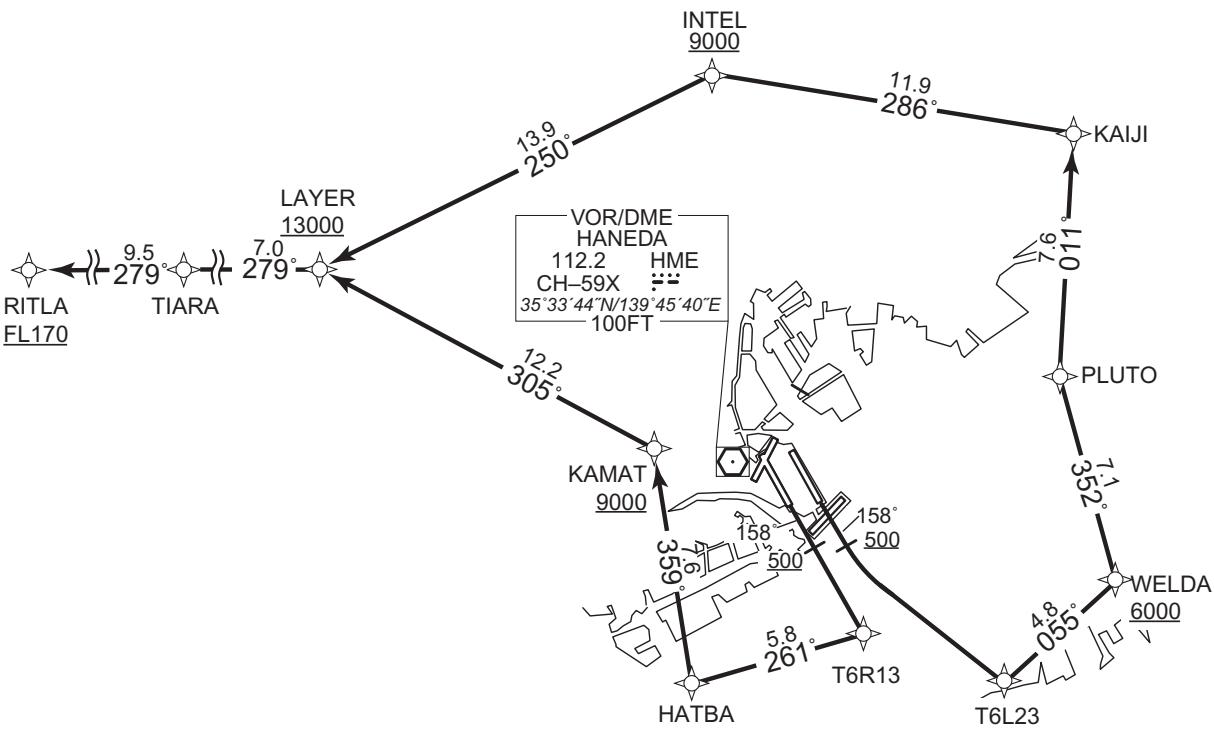
RNAV SID

RITLA TWO A DEPARTURE		RNAV SID
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		RNAV1
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W(2020)

RITLA TWO A DEPARTURE RWY16R/16L

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RITLA TWO A DEPARTURE

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

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

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

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

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

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

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

CHANGE : PROC renamed. RTE after LAYER. TIARA established. HDG after DEP FM RWY04.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RITLA TWO A DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	HATBA	—	261 (253.8)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.6	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
006	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
007	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

## RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
008	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation RTE after LAYER. TIARA established.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	043 (034.9)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
008	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

## RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	288 (280.8)	-7.6	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.6	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

Waypoint Coordinates

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

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY04:NR001(Route). RWY05:NR004(Course).

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RITLA TWO B DEPARTURE

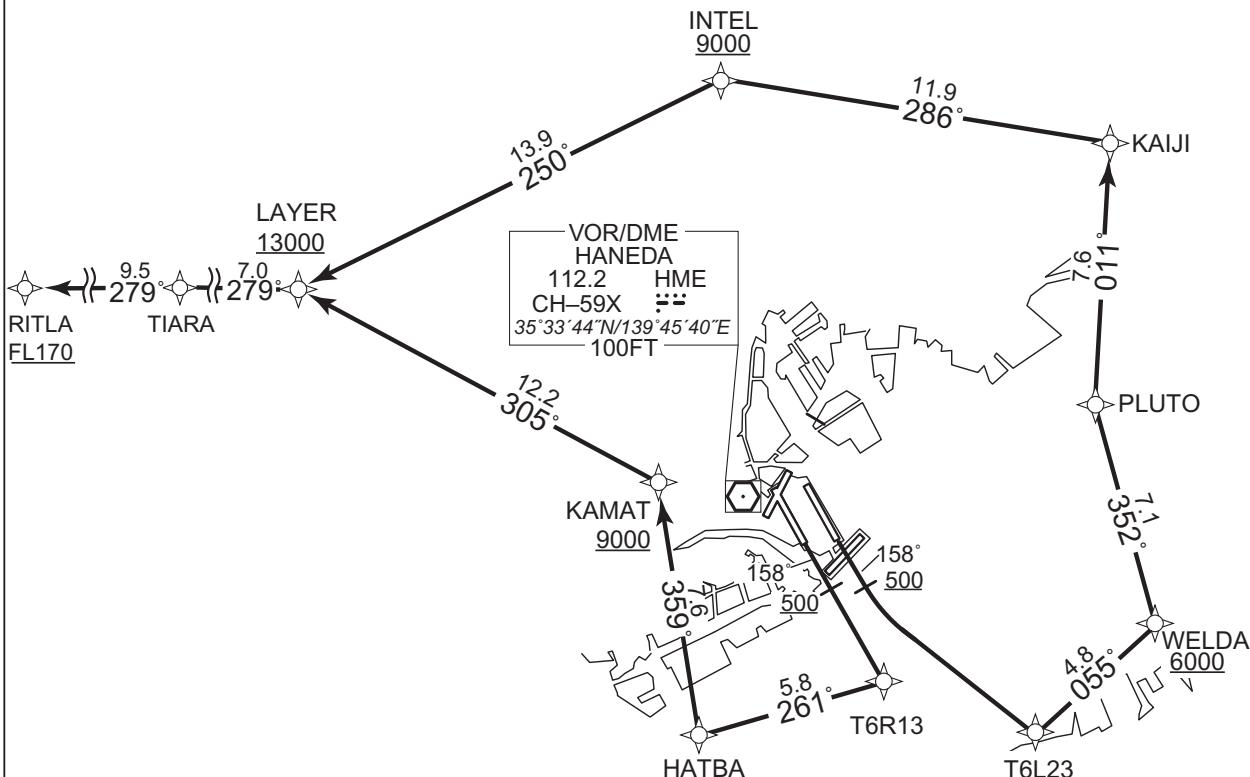
RNAV1

<p>Note 1) DME/DME/IRU or GNSS required.        ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.</p> <p>2) RADAR service required.</p>		<p>Critical DME</p> <p>RWY16R : HME 1.2NM FM DER - HATBA        HYD 2.8NM to HATBA - 1.6NM to HATBA        KAMAT - 9.2NM to LAYER        PQD HATBA - 1.6NM to KAMAT        KAMAT - 9.2NM to LAYER        SND 11.2NM to LAYER - LAYER</p> <p>RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23        PQD 6.6NM to KAIJI - KAIJI        NRE 6.9NM to INTEL - 6.9NM to LAYER</p> <p>RWY05 : HME DER - 2.7NM to TT502        TT503 - 3.8NM to KAMAT        1.8NM to KAMAT - KAMAT        HYD 1.2NM to TT503 - TT503        4.8NM to KAMAT - 3.8NM to KAMAT        PQD KAMAT - 9.2NM to LAYER        SND 11.2NM to LAYER - LAYER</p>
DME GAP	<p>RWY16R : DER - 1.2NM FM DER        RWY16L : DER - 1.0NM FM DER        RWY34R : DER - 1.0NM FM DER        RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT</p>	
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W(2020)

## RITLA TWO B DEPARTURE RWY16R/16L

CHANGE : PROC renamed. VAR, RTE after LAYER, TIARA established.



STANDARD DEPARTURE CHART-INSTRUMENT

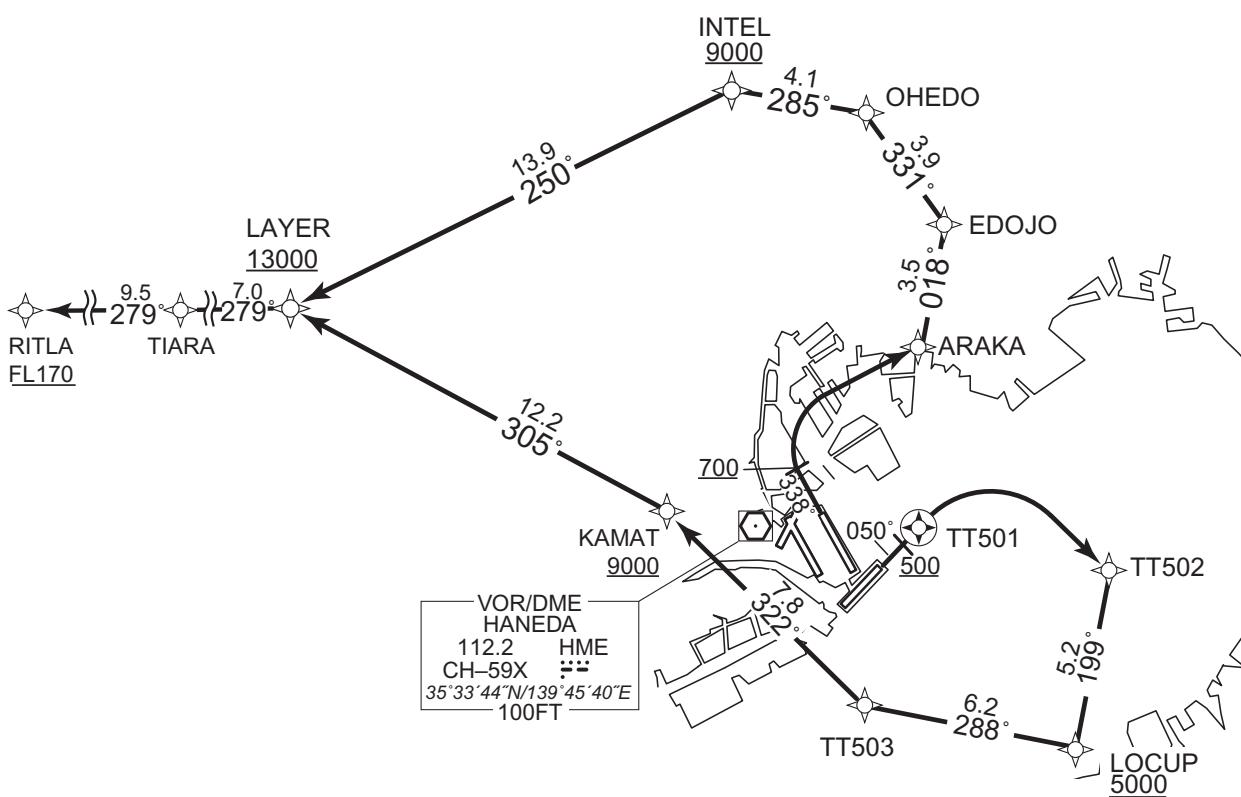
RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

RITLA TWO B DEPARTURE      RWY 34R/05

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established. Course FM TT502 to LOCUP.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RITLA TWO B DEPARTURE

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

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

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

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

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

**RITLA TWO B DEPARTURE**

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	HATBA	—	261 (253.8)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.6	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
006	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
007	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.6	4.1	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
008	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RTE after LAYER. TIARA established.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	288 (280.8)	-7.6	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.6	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY05;NR004(Course).

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RITLA TWO C DEPARTURE

RNAV1

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

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

2) RADAR service required.

DME GAP

RWY16R : DER - 1.2NM FM DER  
RWY16L : DER - 1.0NM FM DER  
RWY34R : DER - 1.0NM FM DER  
RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT  
RWY22 : DER - 1.4NM FM DER

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

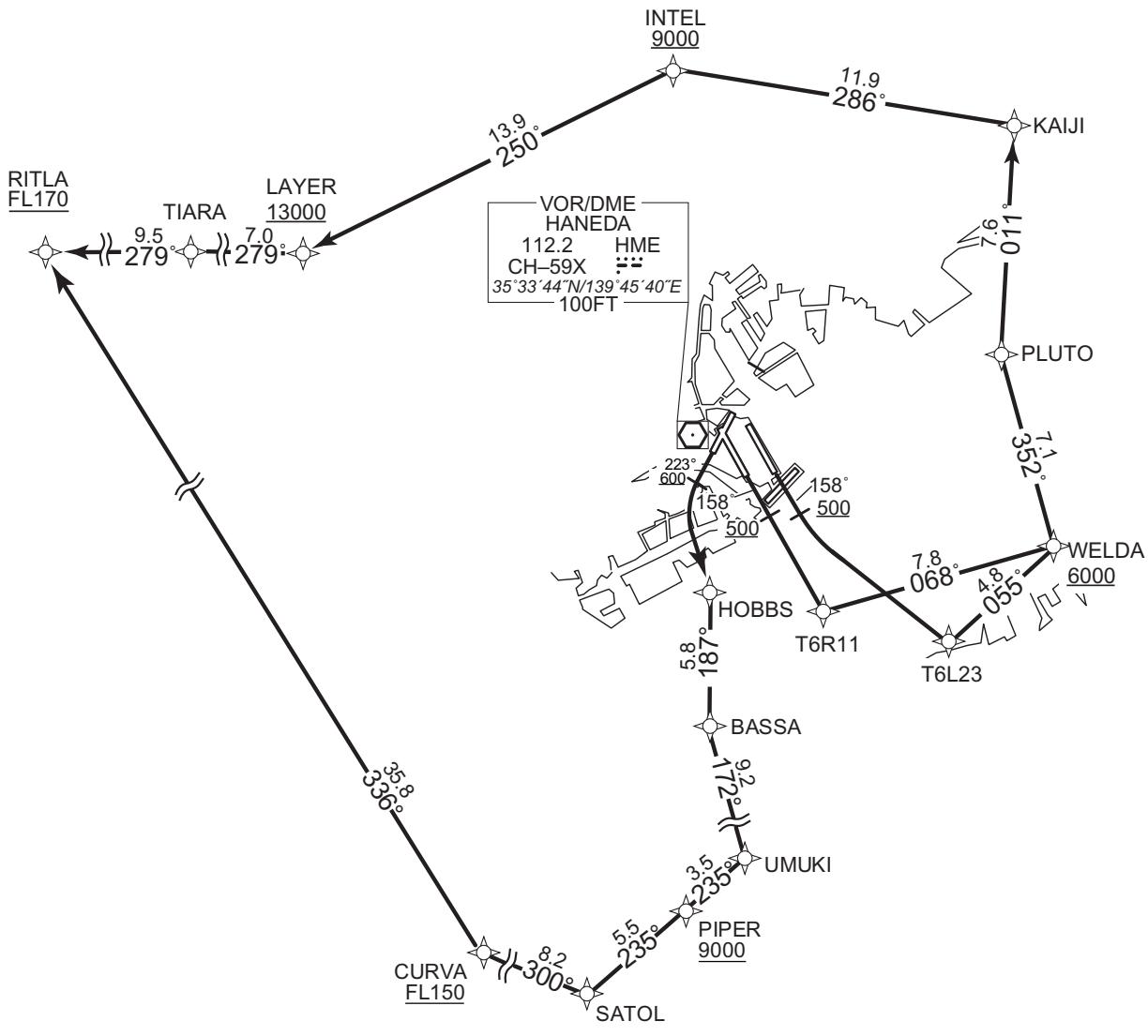
Critical DME

RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11  
PQD 6.6NM to KAIJI - KAIJI  
NRE 6.9NM to INTEL - 6.9NM to LAYER  
RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23  
PQD 6.6NM to KAIJI - KAIJI  
NRE 6.9NM to INTEL - 6.9NM to LAYER  
RWY05 : HME DER - 2.7NM to TT502  
TT503 - 3.8NM to KAMAT  
1.8NM to KAMAT - KAMAT  
HYD 1.2NM to TT503 - TT503  
4.8NM to KAMAT - 3.8NM to KAMAT  
PQD KAMAT - 9.2NM to LAYER  
SND 11.2NM to LAYER - LAYER

VAR8°W(2020)

RITLA TWO C DEPARTURE RWY16R/16L/22

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established. HDG after DEP FM RWY22. Course FM BASSA to UMUKI.



## STANDARD DEPARTURE CHART-INSTRUMENT

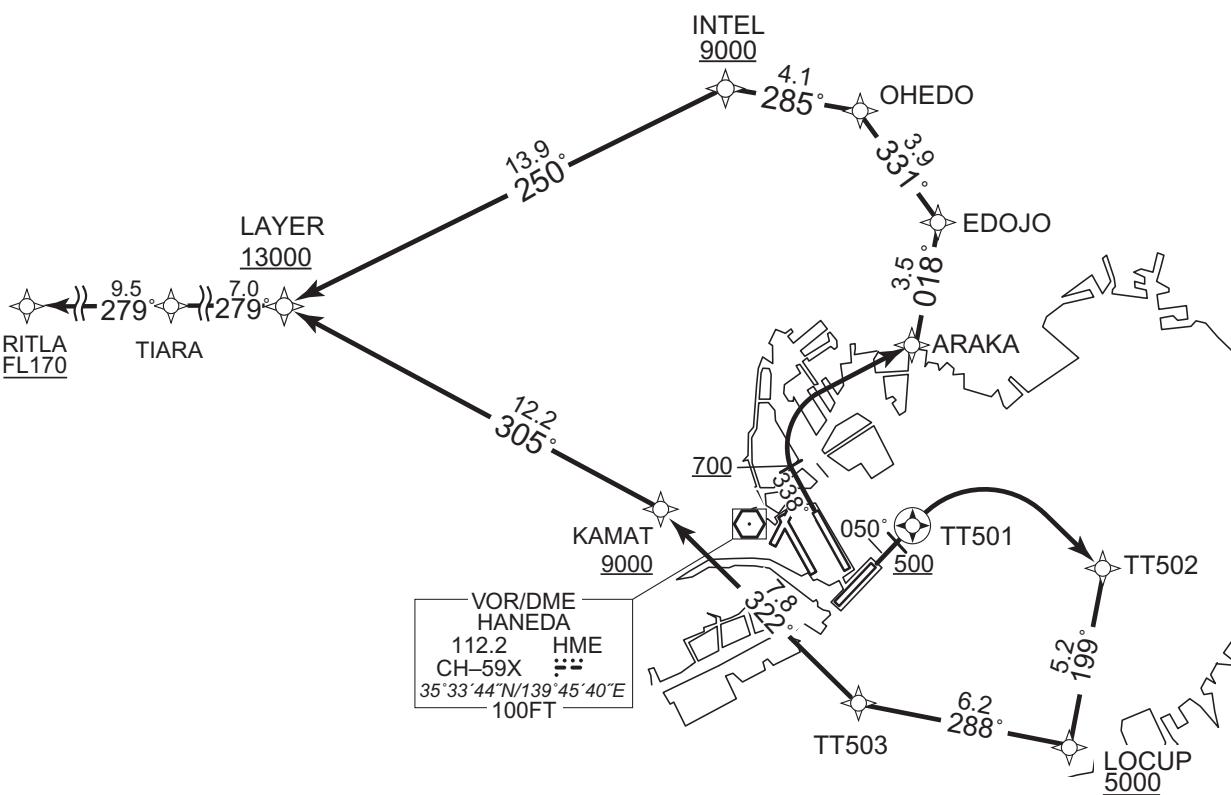
RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

RITLA TWO C DEPARTURE      RWY 34R/05

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established. Course FM TT502 to LOCUP.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

**RITLA TWO C DEPARTURE**

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

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

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

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

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

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

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

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

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RITLA TWO C DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.6	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

## RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.6	4.1	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
008	TF	RITLA	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

CHANGE : PROG renamed. Magnetic Variation. RTE after LAYER. TIARA established.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	050 (042.4)	-7.6	-	-	+500	-	-	RNAV1
002	DF	TT501	Y	-	-7.6	-	-	-	-	-	RNAV1
003	DF	TT502	-	-	-7.6	-	R	-	-	-	RNAV1
004	TF	LOCUP	-	199 (190.9)	-7.6	5.2	-	+5000	-	-	RNAV1
005	TF	TT503	-	288 (280.8)	-7.6	6.2	-	-	-	-	RNAV1
006	TF	KAMAT	-	322 (314.2)	-7.6	7.8	-	+9000	-	-	RNAV1
007	TF	LAYER	-	305 (297.1)	-7.6	12.2	-	+13000	-	-	RNAV1
008	TF	TIARA	-	279 (271.2)	-7.6	7.0	-	-	-	-	RNAV1
009	TF	RITLA	-	279 (271.1)	-7.6	9.5	-	+FL170	-	-	RNAV1

## RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	223 (214.9)	-7.6	-	-	+600	-	-	RNAV1
002	DF	HOBBS	-	-	-7.6	-	L	-	-	-	RNAV1
003	TF	BASSA	-	187 (179.9)	-7.6	5.8	-	-	-	-	RNAV1
004	TF	UMUKI	-	172 (163.9)	-7.6	9.2	-	-	-	-	RNAV1
005	TF	PIPER	-	235 (227.4)	-7.6	3.5	-	+9000	-	-	RNAV1
006	TF	SATOL	-	235 (227.4)	-7.6	5.5	-	-	-	-	RNAV1
007	TF	CURVA	-	300 (292.2)	-7.6	8.2	-	+FL150	-	-	RNAV1
008	TF	RITLA	-	336 (328.3)	-7.6	35.8	-	+FL170	-	-	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	PLUTO	353632.1N / 1395736.8E
BASSA	352108.8N / 1394542.2E	RITLA	353944.8N / 1390813.1E
CURVA	350919.0N / 1393124.4E	SATOL	350613.3N / 1394043.4E
EDOJO	354214.0N / 1395129.9E	T6L23	352627.6N / 1395539.1E
HOBBS	352653.9N / 1394541.3E	T6R11	352552.5N / 1395137.2E
INTEL	354553.0N / 1394340.2E	TIARA	353934.0N / 1391954.2E
KAIJI	354409.6N / 1395806.6E	TT501	353328.7N / 1395029.9E
KAMAT	353353.6N / 1394148.9E	TT502	353224.4N / 1395720.7E
LAYER	353925.4N / 1392829.5E	TT503	352828.0N / 1394840.4E
LOCUP	352718.8N / 1395608.5E	UMUKI	351219.1N / 1394849.2E
OHEDO	354523.4N / 1394838.6E	WELDA	352941.4N / 1395956.7E
PIPER	350958.3N / 1394542.0E		

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY05:NR004(Course). RWY22:NR001,004(Course).

## STANDARD DEPARTURE CHART-INSTRUMENT

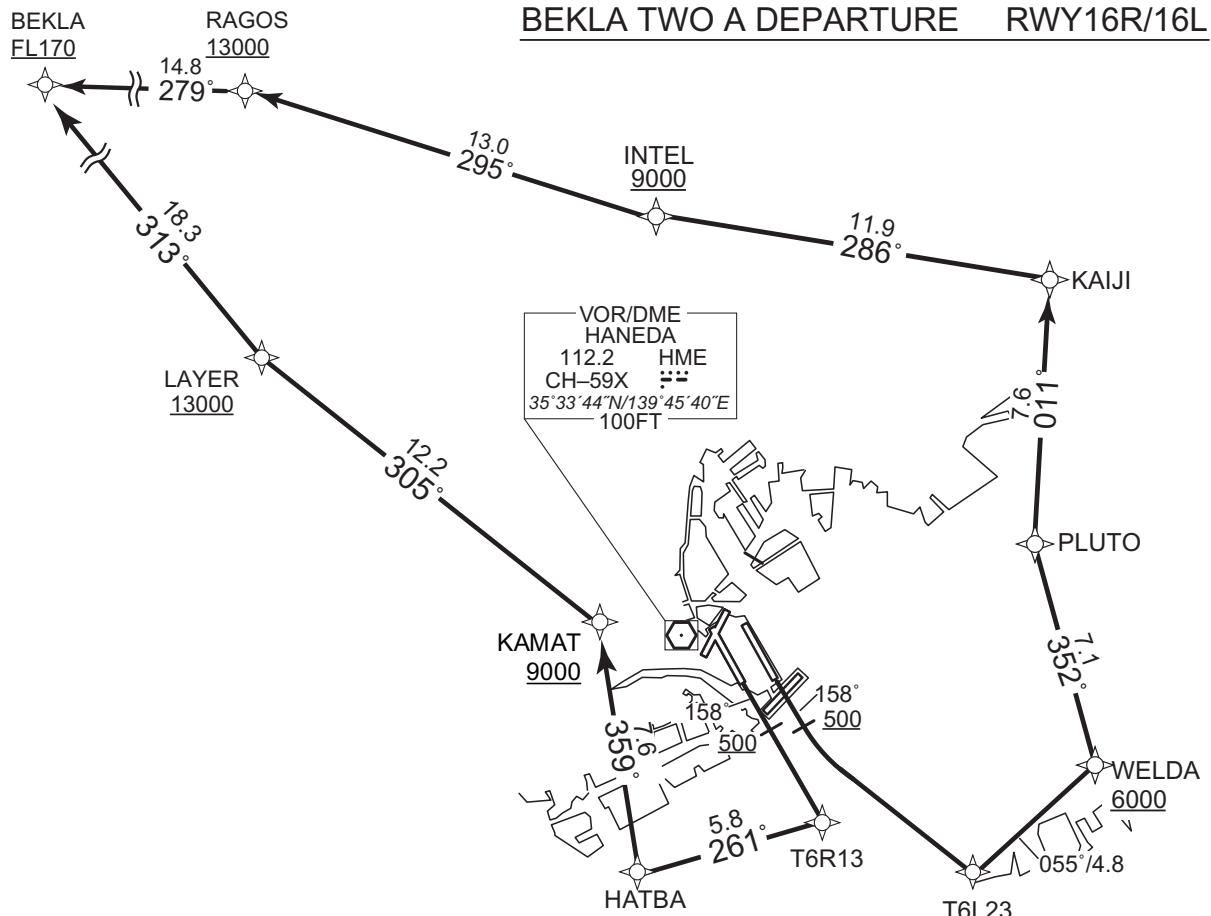
RJTT/TOKYO INTL

RNAV SID

BEKLA TWO A DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	RWY16R : HME 1.2NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT

VAR8°W(2020)

CHANGE : PROC renamed. VAR. RTE after KAMAT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

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

CHANGE : PROC renamed. VAR. RTE after KAMAT. Course FM TT502 to LOCUP. HDG after DEP FM RWY04.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO A DEPARTURE

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

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

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

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

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

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO A DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	HATBA	—	261 (253.8)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.6	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
006	TF	BEKLA	—	313 (305.4)	-7.6	18.3	—	+FL170	—	—	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	279 (271.2)	-7.6	14.8	—	+FL170	—	—	RNAV1

RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.6	14.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY16R; RTE after KAMAT.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	043 (034.9)	-7.6	-	-	+700	-	-	RNAV1
002	DF	TORAM	-	-	-7.6	-	-	-	-	-	RNAV1
003	TF	PLUTO	-	098 (090.7)	-7.6	6.0	-	-	-	-	RNAV1
004	TF	KAIJI	-	011 (003.0)	-7.6	7.6	-	-	-	-	RNAV1
005	TF	INTEL	-	286 (278.4)	-7.6	11.9	-	+9000	-	-	RNAV1
006	TF	RAGOS	-	295 (287.2)	-7.6	13.0	-	+13000	-	-	RNAV1
007	TF	BEKLA	-	279 (271.2)	-7.6	14.8	-	+FL170	-	-	RNAV1

RWY05											
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	050 (042.4)	-7.6	-	-	+500	-	-	RNAV1
002	DF	TT501	Y	-	-7.6	-	-	-	-	-	RNAV1
003	DF	TT502	-	-	-7.6	-	R	-	-	-	RNAV1
004	TF	LOCUP	-	199 (190.9)	-7.6	5.2	-	+5000	-	-	RNAV1
005	TF	TT503	-	288 (280.8)	-7.6	6.2	-	-	-	-	RNAV1
006	TF	KAMAT	-	322 (314.2)	-7.6	7.8	-	+9000	-	-	RNAV1
007	TF	LAYER	-	305 (297.1)	-7.6	12.2	-	+13000	-	-	RNAV1
008	TF	BEKLA	-	313 (305.4)	-7.6	18.3	-	+FL170	-	-	RNAV1

Waypoint Coordinates

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

CHANGE : Magnetic Variation. RWY04:NR004(Course), RWY05:NR005(Course), RTE after KAMAT. Waypoint Coordinates(LAYER added).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO B DEPARTURE

RNAV1

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

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

2) RADAR service required.

DME GAP

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

Critical DME

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

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR8°W(2020)

BEKLA  
FL170

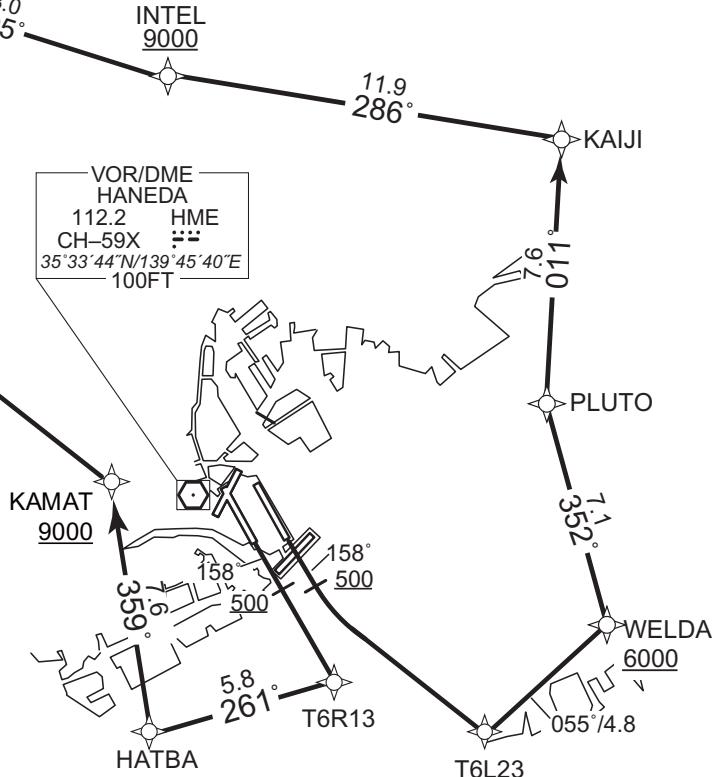
RAGOS  
13000

BEKLA TWO B DEPARTURE

RWY16R/16L

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

CHANGE : PROC renamed. VAR. RTE after KAMAT.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

BEKLA TWO B DEPARTURE RWY34R/05

CHANGE : PROC renamed. VAR RTE after KAMAT. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO B DEPARTURE

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

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

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

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

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

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

CHANGE : PROC renamed. RTE after KAMAT (RWY16R,05).

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO B DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	HATBA	—	261 (253.8)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.6	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
006	TF	BEKLA	—	313 (305.4)	-7.6	18.3	—	+FL170	—	—	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	279 (271.2)	-7.6	14.8	—	+FL170	—	—	RNAV1

## RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.6	4.1	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.6	14.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY16R,RTE after KAMAT.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	288 (280.8)	-7.6	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.6	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	313 (305.4)	-7.6	18.3	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY05:NR004(Course), RTE after KAMAT. Waypoint Coordinates(LAYER added).

Waypoint Coordinates

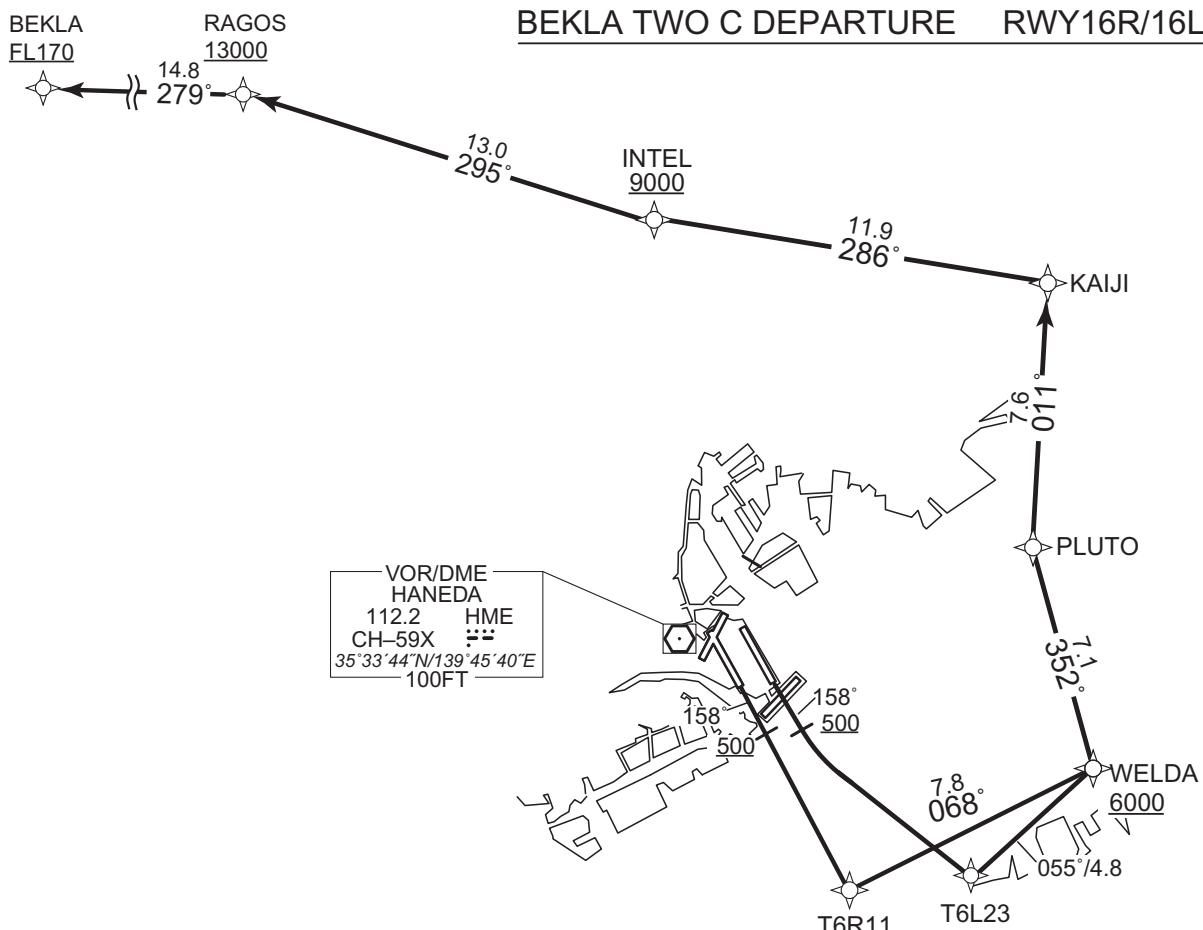
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	OHEDO	354523.4N / 1394838.6E
BEKLA	354958.7N / 1391009.5E	PLUTO	353632.1N / 1395736.8E
EDOJO	354214.0N / 1395129.9E	RAGOS	354942.2N / 1392821.2E
HATBA	352623.4N / 1394315.9E	T6L23	352627.6N / 1395539.1E
INTEL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

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL		RNAV SID
BEKLA TWO C DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W(2020)

CHANGE : PROC renamed. VAR.



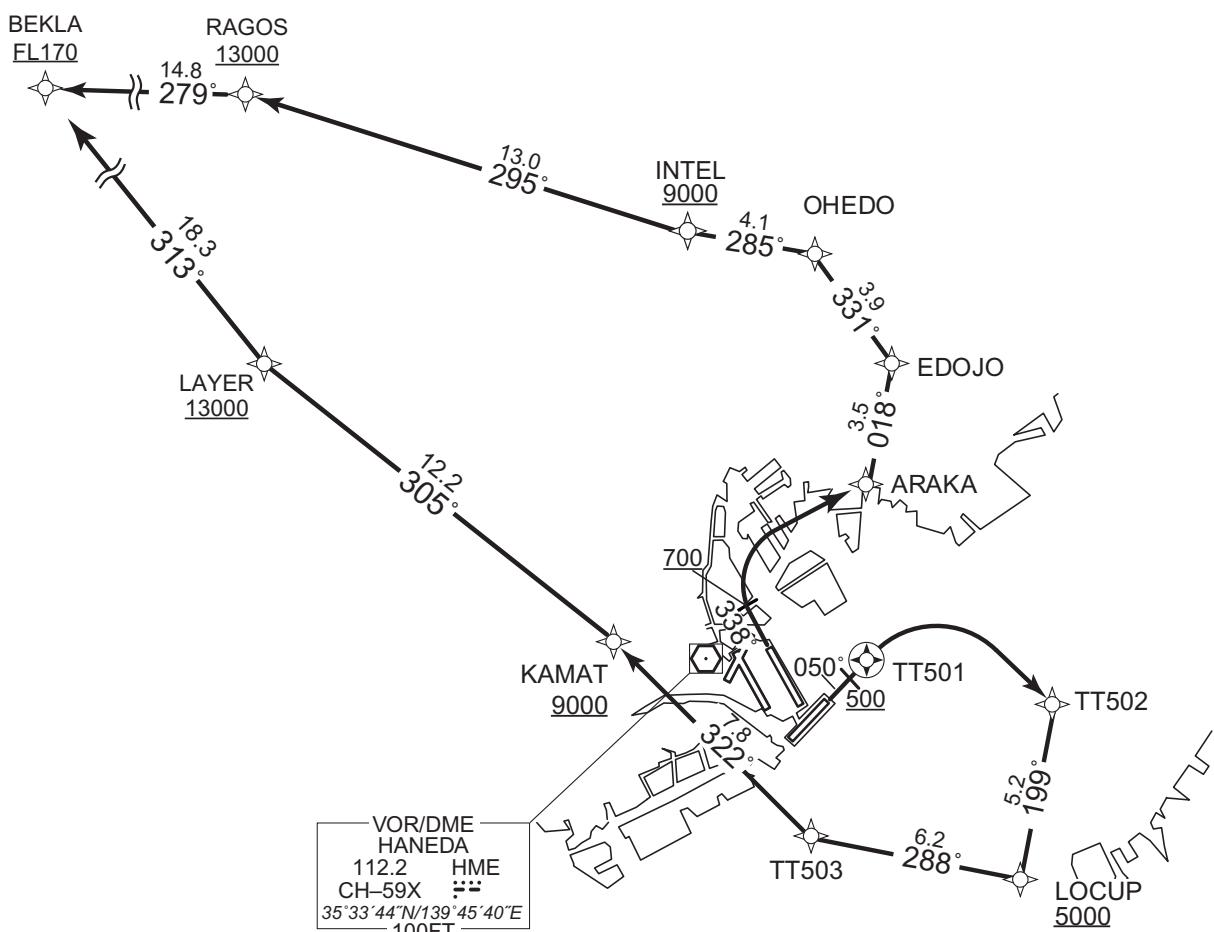
STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

BEKLA TWO C DEPARTURE RWY34R/05



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO C DEPARTURE

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

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

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

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

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

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

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO C DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	WELDA	–	068 (060.6)	-7.6	7.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

## RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	INTEL	–	285 (277.0)	-7.6	4.1	–	+9000	–	–	RNAV1
006	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
007	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	050 (042.4)	-7.6	-	-	+500	-	-	RNAV1
002	DF	TT501	Y	-	-7.6	-	-	-	-	-	RNAV1
003	DF	TT502	-	-	-7.6	-	R	-	-	-	RNAV1
004	TF	LOCUP	-	199 (190.9)	-7.6	5.2	-	+5000	-	-	RNAV1
005	TF	TT503	-	288 (280.8)	-7.6	6.2	-	-	-	-	RNAV1
006	TF	KAMAT	-	322 (314.2)	-7.6	7.8	-	+9000	-	-	RNAV1
007	TF	LAYER	-	305 (297.1)	-7.6	12.2	-	+13000	-	-	RNAV1
008	TF	BEKLA	-	313 (305.4)	-7.6	18.3	-	+FL170	-	-	RNAV1

CHANGE : Magnetic Variation. RWY05:NR004(Course),RTE after KAMAT. Waypoint Coordinates(LAYER added).

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	PLUTO	353632.1N / 1395736.8E
BEKLA	354958.7N / 1391009.5E	RAGOS	354942.2N / 1392821.2E
EDOJO	354214.0N / 1395129.9E	T6L23	352627.6N / 1395539.1E
INTEL	354553.0N / 1394340.2E	T6R11	352552.5N / 1395137.2E
KAIJI	354409.6N / 1395806.6E	TT501	353328.7N / 1395029.9E
KAMAT	353353.6N / 1394148.9E	TT502	353224.4N / 1395720.7E
LAYER	353925.4N / 1392829.5E	TT503	352828.0N / 1394840.4E
LOCUP	352718.8N / 1395608.5E	WELDA	352941.4N / 1395956.7E
OHEDO	354523.4N / 1394838.6E		

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

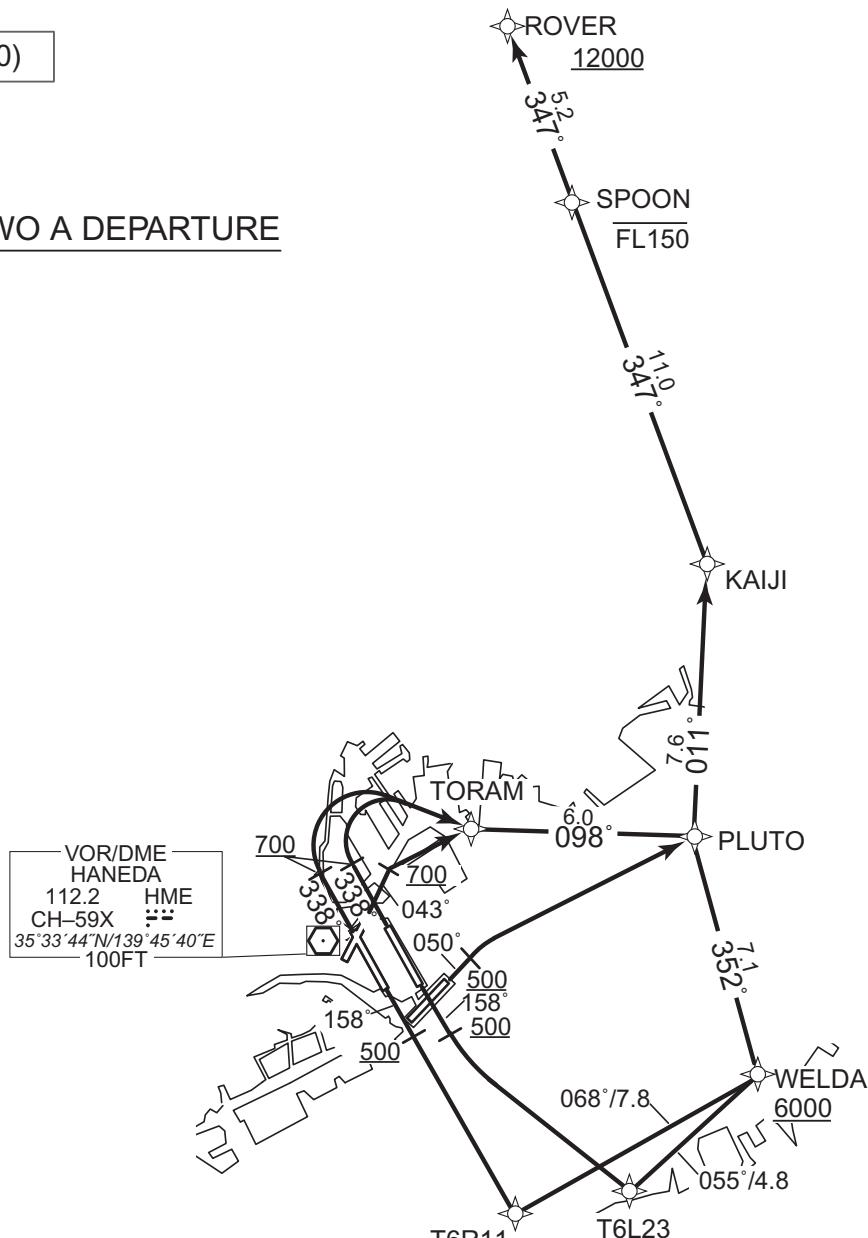
RNAV SID

ROVER TWO A DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		
DME GAP	RWY16R: DER - 1.2NM FM DER RWY16L: DER - 1.0NM FM DER RWY34R: DER - 1.0NM FM DER RWY34L: DER - 0.5NM FM DER RWY04: DER - 1.7NM FM DER	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY05 : HME DER - 2.2NM to PLUTO PQD 6.6NM to KAIJI - KAIJI

VAR8°W(2020)

ROVER TWO A DEPARTURE

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO A DEPARTURE

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

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

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

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

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

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

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

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## ROVER TWO A DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	158 (150.0)	-7.6	-	-	+500	-	-	RNAV1
002	DF	T6R11	-	-	-7.6	-	-	-	-	-	RNAV1
003	TF	WELDA	-	068 (060.6)	-7.6	7.8	-	+6000	-	-	RNAV1
004	TF	PLUTO	-	352 (344.5)	-7.6	7.1	-	-	-	-	RNAV1
005	TF	KAIJI	-	011 (003.0)	-7.6	7.6	-	-	-	-	RNAV1
006	TF	SPOON	-	347 (339.2)	-7.6	11.0	-	-FL150	-	-	RNAV1
007	TF	ROVER	-	347 (339.1)	-7.6	5.2	-	+12000	-	-	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	158 (150.0)	-7.6	-	-	+500	-	-	RNAV1
002	DF	T6L23	-	-	-7.6	-	L	-	-	-	RNAV1
003	TF	WELDA	-	055 (047.3)	-7.6	4.8	-	+6000	-	-	RNAV1
004	TF	PLUTO	-	352 (344.5)	-7.6	7.1	-	-	-	-	RNAV1
005	TF	KAIJI	-	011 (003.0)	-7.6	7.6	-	-	-	-	RNAV1
006	TF	SPOON	-	347 (339.2)	-7.6	11.0	-	-FL150	-	-	RNAV1
007	TF	ROVER	-	347 (339.1)	-7.6	5.2	-	+12000	-	-	RNAV1

## RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	338 (330.0)	-7.6	-	-	+700	-	-	RNAV1
002	DF	TORAM	-	-	-7.6	-	R	-	-	-	RNAV1
003	TF	PLUTO	-	098 (090.7)	-7.6	6.0	-	-	-	-	RNAV1
004	TF	KAIJI	-	011 (003.0)	-7.6	7.6	-	-	-	-	RNAV1
005	TF	SPOON	-	347 (339.2)	-7.6	11.0	-	-FL150	-	-	RNAV1
006	TF	ROVER	-	347 (339.1)	-7.6	5.2	-	+12000	-	-	RNAV1

CHANGE : PROC renamed. Magnetic Variation.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	043 (034.9)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

## RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

CHANGE : Magnetic Variation. RWY04:NRW01(Course).

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO B DEPARTURE

RNAV1

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

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

2) RADAR service required.

DME GAP

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

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

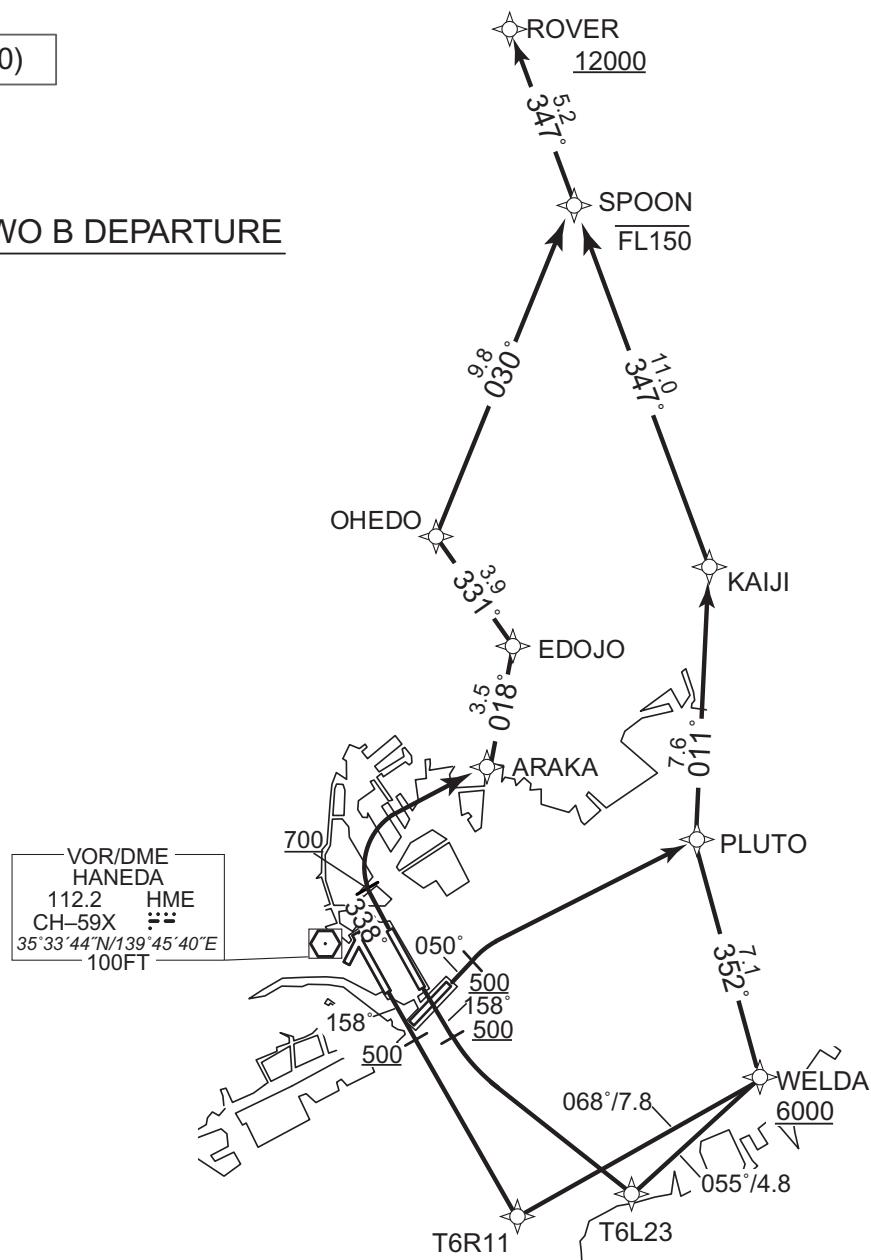
Critical DME

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

VAR8°W(2020)

ROVER TWO B DEPARTURE

CHANGE : PROC renamed.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO B DEPARTURE

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

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

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

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

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

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

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO B DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.6	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	SPOON	—	030 (022.4)	-7.6	9.8	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

CHANGE : PROC renamed.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

Waypoint Coordinates

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

CHANGE : Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO C DEPARTURE

RNAV1

Note 1) DME/DME/IRU or GNSS required.  
 ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.  
 2) RADAR service required.

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

Inappropriate Navaids  
 See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

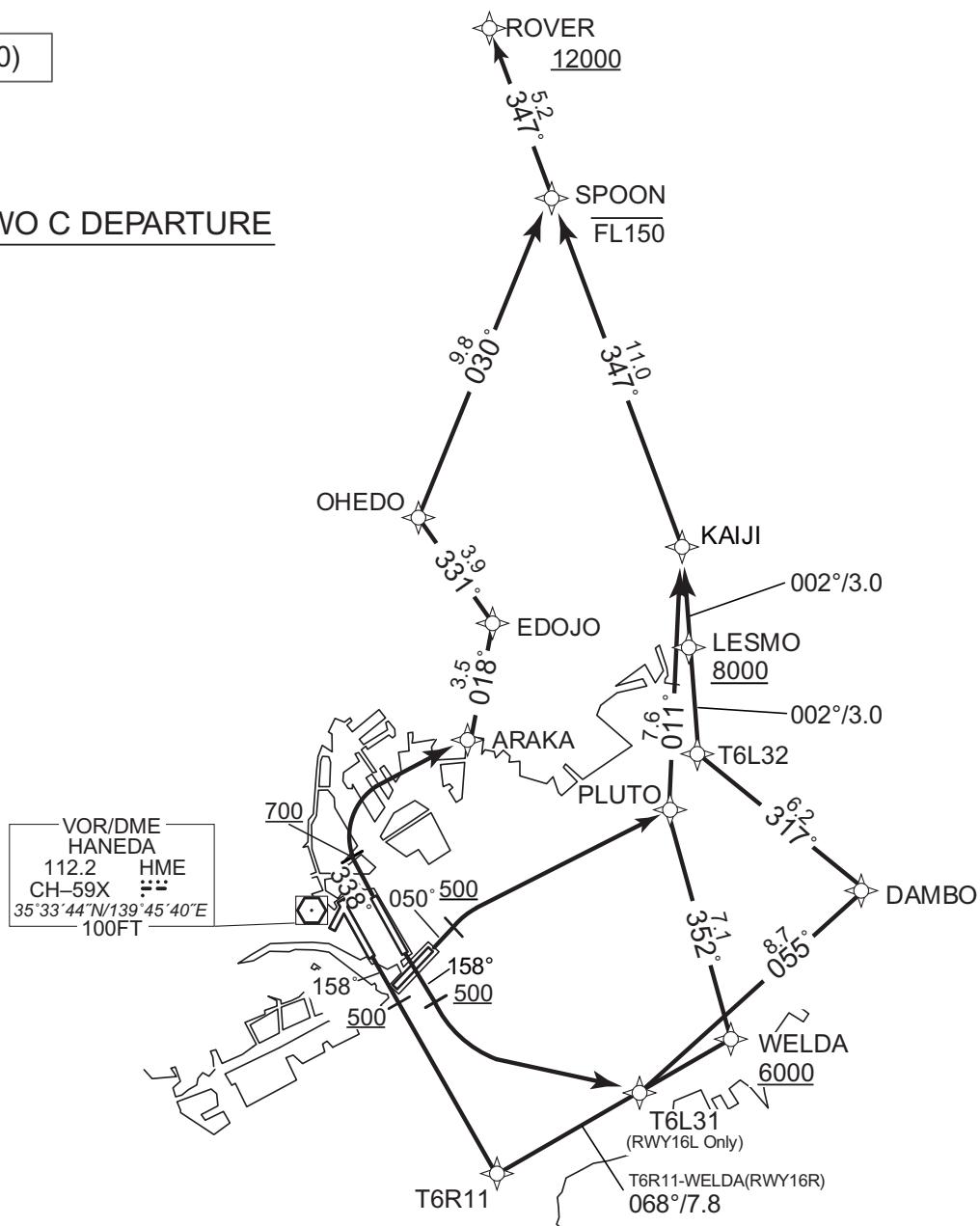
RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11  
 PQD 6.6NM to KAIJI - KAIJI

RWY05 : HME DER - 2.2NM to PLUTO  
 PQD 6.6NM to KAIJI - KAIJI

VAR8°W(2020)

ROVER TWO C DEPARTURE

CHANGE : PROC renamed.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO C DEPARTURE

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

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

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

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

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

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

CHANGE : PROC renamed.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO C DEPARTURE

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.6	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L31	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	DAMBO	—	055 (047.5)	-7.6	8.7	—	—	—	—	RNAV1
004	TF	T6L32	—	317 (309.4)	-7.6	6.2	—	—	—	—	RNAV1
005	TF	LESMO	—	002 (354.1)	-7.6	3.0	—	+8000	—	—	RNAV1
006	TF	KAIJI	—	002 (354.1)	-7.6	3.0	—	—	—	—	RNAV1
007	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
008	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

## RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	SPOON	—	030 (022.4)	-7.6	9.8	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

CHANGE : PROC renamed.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

Waypoint Coordinates

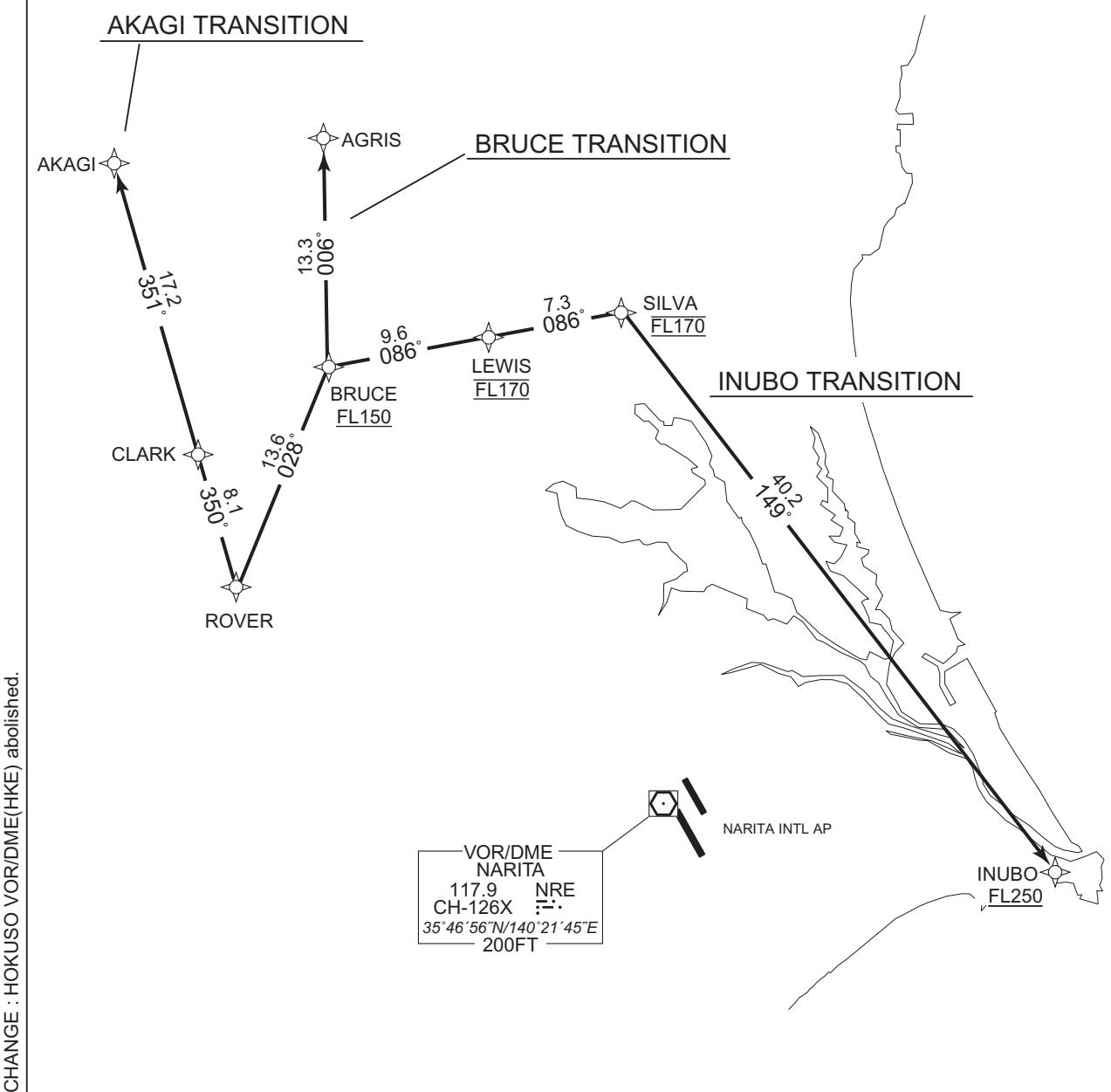
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	ROVER	355918.3N / 1395059.3E
DAMBO	353416.5N / 1400443.4E	SPOON	355428.3N / 1395316.0E
EDOJO	354214.0N / 1395129.9E	T6L31	352822.8N / 1395648.0E
KAIJI	354409.6N / 1395806.6E	T6L32	353810.9N / 1395852.2E
LESMO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

CHANGE : Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL		RNAV TRANSITION
AKAGI TRANSITION / BRUCE TRANSITION/ INUBO TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required.		
2) RADAR service required.		
DME GAP	-	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	-

VAR8°W(2019)



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV TRANSITION

AKAGI TRANSITION

From ROVER, to CLARK, to AKAGI.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ROVER	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	CLARK	—	350 (342.7)	-7.5	8.1	—	—	—	—	RNAV1
003	TF	AKAGI	—	351 (343.4)	-7.5	17.2	—	—	—	—	RNAV1

BRUCE TRANSITION

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ROVER	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	BRUCE	—	028 (020.7)	-7.5	13.6	—	+FL150	—	—	RNAV1
003	TF	AGRIS	—	006 (358.7)	-7.5	13.3	—	—	—	—	RNAV1

INUBO TRANSITION

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ROVER	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	BRUCE	—	028 (020.7)	-7.5	13.6	—	+FL150	—	—	RNAV1
003	TF	LEWIS	—	086 (078.6)	-7.5	9.6	—	FL170	—	—	RNAV1
004	TF	SILVA	—	086 (078.8)	-7.5	7.3	—	FL170	—	—	RNAV1
005	TF	INUBO	—	149 (141.9)	-7.5	40.2	—	+FL250	—	—	RNAV1

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

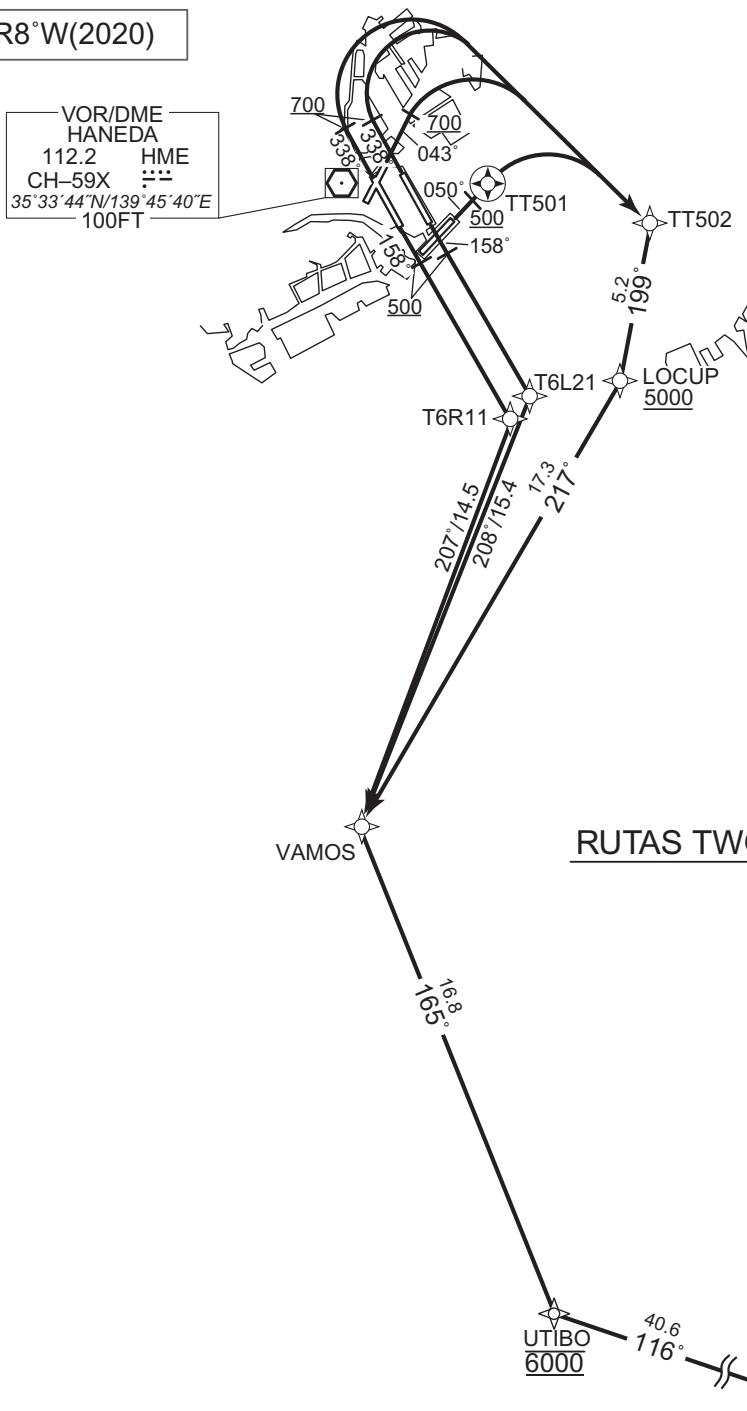
RJTT/TOKYO INTL

RNAV SID

RUTAS 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 : HME 1.2NM FM DER - 1.9NM to T6R11 RWY16L : HME 1.0NM FM DER - 2.4NM to T6L21 RWY34R : HME 1.0NM FM DER - 2.5NM to TT502 RWY34L : HME 0.5NM FM DER - 2.5NM to TT502 RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 RWY05 : HME DER - 2.7NM to TT502
DME GAP  RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER		
Inappropriate Navaids  See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8°W(2020)

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04. Course FM TT502 to LOCUP.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RUTAS TWO DEPARTURE

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

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

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

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

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

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

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

## RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	207 (199.5)	-7.6	14.5	—	—	—	—	RNAV1
004	TF	UTIBO	—	165 (157.0)	-7.6	16.8	—	6000	—	—	RNAV1
005	TF	RUTAS	—	116 (108.4)	-7.6	40.6	—	—	—	—	RNAV1

## RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	158 (150.0)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	208 (200.7)	-7.6	15.4	—	—	—	—	RNAV1
004	TF	UTIBO	—	165 (157.0)	-7.6	16.8	—	6000	—	—	RNAV1
005	TF	RUTAS	—	116 (108.4)	-7.6	40.6	—	—	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. HDG after DEP FM RWY04.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	338 (330.0)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.6	17.3	—	—	—	—	RNAV1
005	TF	UTIBO	—	165 (157.0)	-7.6	16.8	—	6000	—	—	RNAV1
006	TF	RUTAS	—	116 (108.4)	-7.6	40.6	—	—	—	—	RNAV1

## RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	043 (034.9)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.6	17.3	—	—	—	—	RNAV1
005	TF	UTIBO	—	165 (157.0)	-7.6	16.8	—	6000	—	—	RNAV1
006	TF	RUTAS	—	116 (108.4)	-7.6	40.6	—	—	—	—	RNAV1

## RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	VAMOS	—	217 (209.5)	-7.6	17.3	—	—	—	—	RNAV1
006	TF	UTIBO	—	165 (157.0)	-7.6	16.8	—	6000	—	—	RNAV1
007	TF	RUTAS	—	116 (108.4)	-7.6	40.6	—	—	—	—	RNAV1

Waypoint Coordinates

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

CHANGE : Magnetic Variation. RWY34L/RWY34R/RWY04(Course), RWY05/NR004(Course), RWY04/NR001,003(Course), RWY05/NR004(Course).

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**STANDARD ARRIVAL CHART-INSTRUMENT**

RJTT / TOKYO INTL

STAR

**SINGO ARRIVAL**

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

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

**DOYLE ARRIVAL**

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

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

**ADDUM ARRIVAL**

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

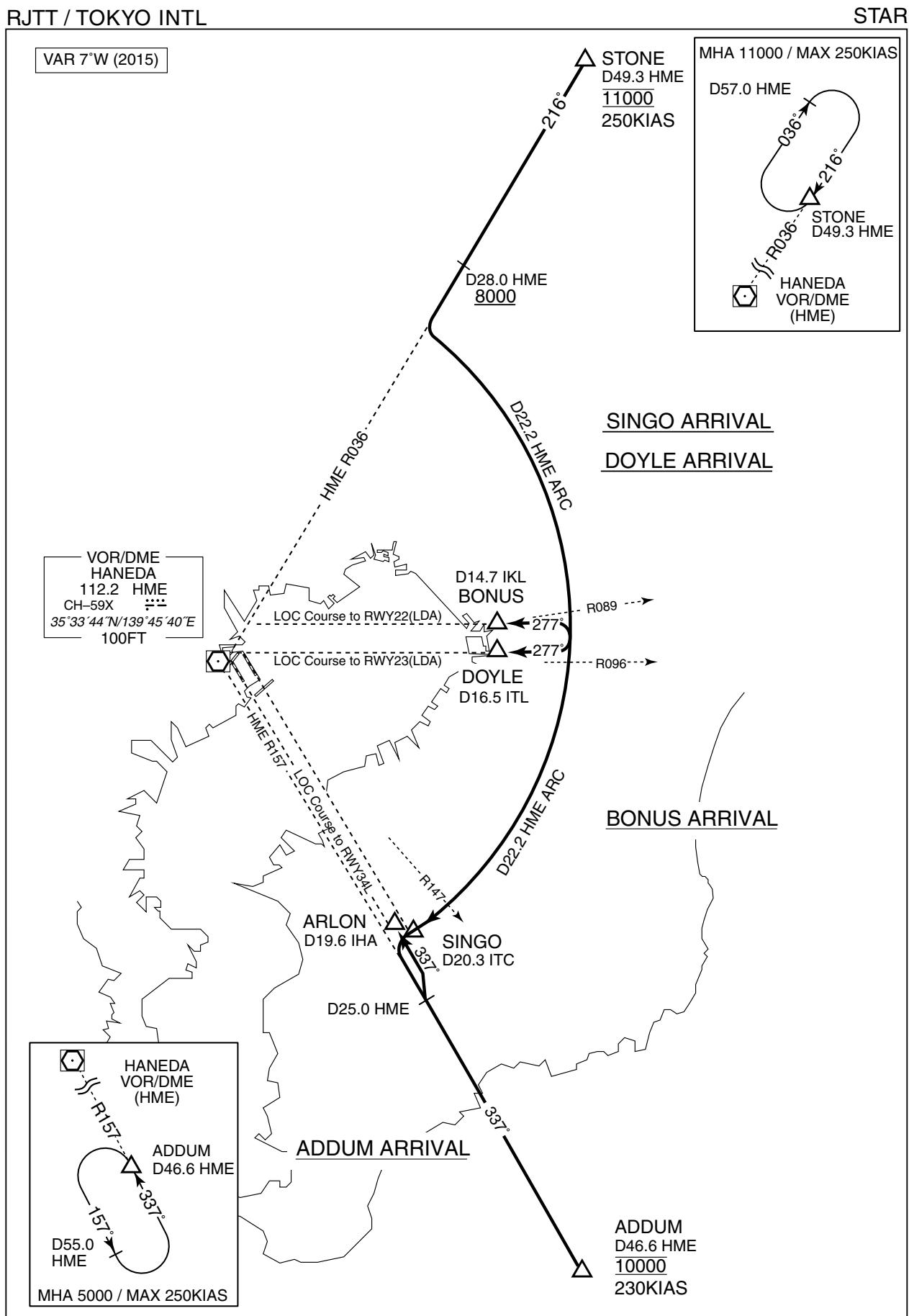
Cross ADDUM at 10000FT.

**BONUS ARRIVAL**

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

Cross ADDUM at 10000FT.

## STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

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

RNAV 1

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

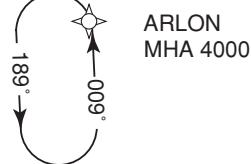
2) RADAR service required.

VAR 8° W(2019)

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



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



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

WEDGE MHA 4000



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

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

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



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

HME

TT

111°

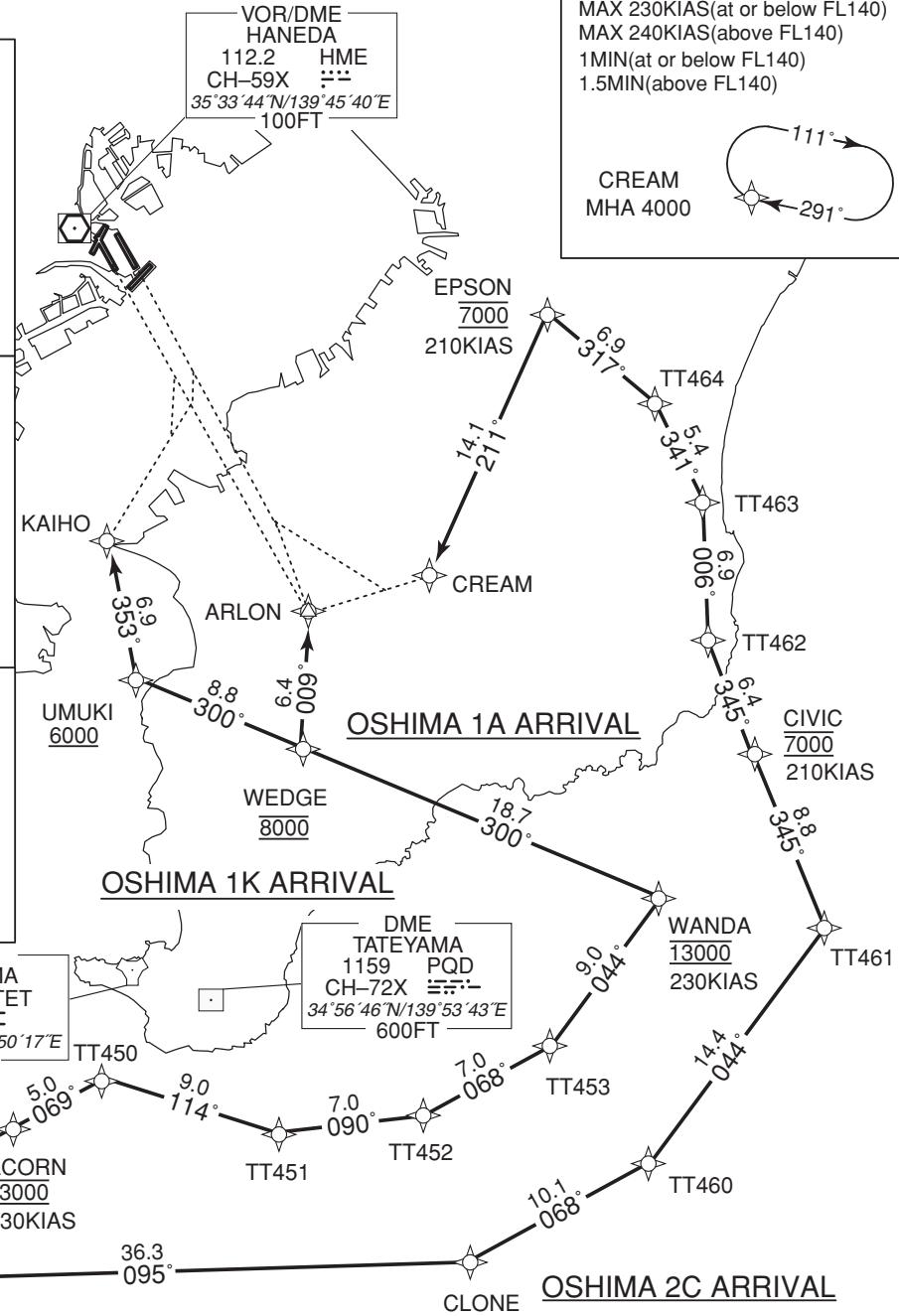
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

CREAM  
MHA 4000

TT

111°

291°



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

CIVIC  
MHA 4000

TT

165°

345°

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

ACORN  
MHA 5000

TT

248°

068°

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	ACORN	—	068 (060.8)	-7.5	15.9	—	13000	230	—	RNAV1
003	TF	TT450	—	069 (061.0)	-7.5	5.0	—	—	—	—	RNAV1
004	TF	TT451	—	114 (106.9)	-7.5	9.0	—	—	—	—	RNAV1
005	TF	TT452	—	090 (082.2)	-7.5	7.0	—	—	—	—	RNAV1
006	TF	TT453	—	068 (060.7)	-7.5	7.0	—	—	—	—	RNAV1
007	TF	WANDA	—	044 (036.0)	-7.5	9.0	—	13000	230	—	RNAV1
008	TF	WEDGE	—	300 (292.4)	-7.5	18.7	—	8000	—	—	RNAV1
009	TF	ARLON	—	009 (001.6)	-7.5	6.4	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ACORN	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1K ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	ACORN	-	068 (060.8)	-7.5	15.9	-	13000	230	-	RNAV1
003	TF	TT450	-	069 (061.0)	-7.5	5.0	-	-	-	-	RNAV1
004	TF	TT451	-	114 (106.9)	-7.5	9.0	-	-	-	-	RNAV1
005	TF	TT452	-	090 (082.2)	-7.5	7.0	-	-	-	-	RNAV1
006	TF	TT453	-	068 (060.7)	-7.5	7.0	-	-	-	-	RNAV1
007	TF	WANDA	-	044 (036.0)	-7.5	9.0	-	13000	230	-	RNAV1
008	TF	WEDGE	-	300 (292.4)	-7.5	18.7	-	8000	-	-	RNAV1
009	TF	UMUKI	-	300 (292.2)	-7.5	8.8	-	+6000	-	-	RNAV1
010	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ACORN	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2C ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CLONE	-	095 (087.8)	-7.5	36.3	-	-	-	-	RNAV1
003	TF	TT460	-	068 (060.7)	-7.5	10.1	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.5	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	345 (337.7)	-7.5	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	345 (337.7)	-7.5	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.5	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.5	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.5	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.5	14.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

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

RNAV STAR RWY34R/34L

RNAV 1

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

VAR 8° W(2019)

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

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

KAIHO  
MHA 4000  
173°  
353°

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

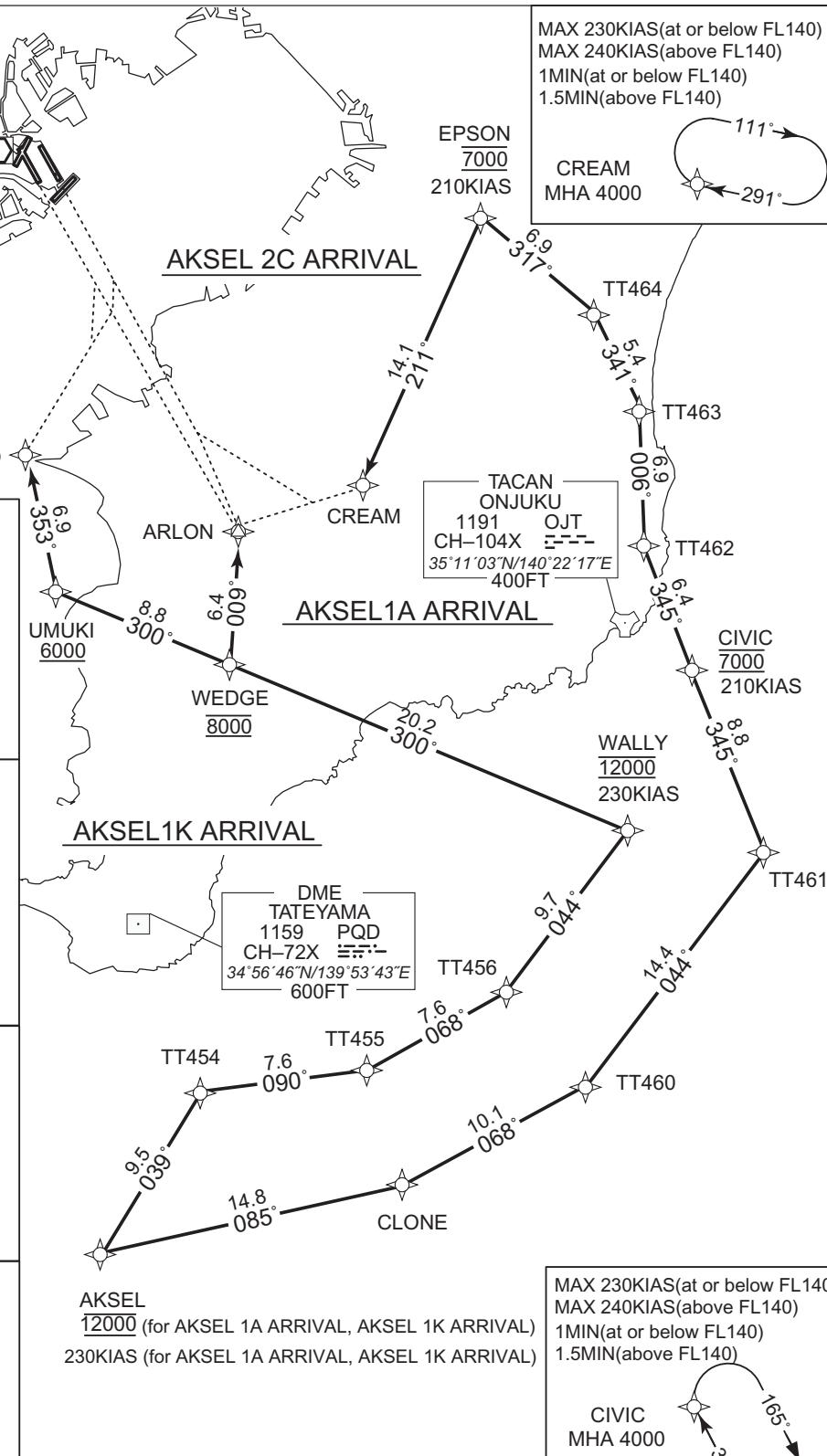
ARLON  
MHA 4000  
600°  
600°

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

WEDGE  
MHA 4000  
300°  
120°

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

AKSEL  
MHA 5000  
039°  
219°



CHANGE : WALLY renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1A ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	TT454	-	039 (031.2)	-7.5	9.5	-	-	-	-	RNAV1
003	TF	TT455	-	090 (082.2)	-7.5	7.6	-	-	-	-	RNAV1
004	TF	TT456	-	068 (060.7)	-7.5	7.6	-	-	-	-	RNAV1
005	TF	WALLY	-	044 (036.0)	-7.5	9.7	-	12000	230	-	RNAV1
006	TF	WEDGE	-	300 (292.4)	-7.5	20.2	-	8000	-	-	RNAV1
007	TF	ARLON	-	009 (001.6)	-7.5	6.4	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : WALLY renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1K ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	—	—	-7.5	—	—	12000	230	—	RNAV1
002	TF	TT454	—	039 (031.2)	-7.5	9.5	—	—	—	—	RNAV1
003	TF	TT455	—	090 (082.2)	-7.5	7.6	—	—	—	—	RNAV1
004	TF	TT456	—	068 (060.7)	-7.5	7.6	—	—	—	—	RNAV1
005	TF	WALLY	—	044 (036.0)	-7.5	9.7	—	12000	230	—	RNAV1
006	TF	WEDGE	—	300 (292.4)	-7.5	20.2	—	8000	—	—	RNAV1
007	TF	UMUKI	—	300 (292.2)	-7.5	8.8	—	+6000	—	—	RNAV1
008	TF	KAIHO	—	353 (345.5)	-7.5	6.9	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : WALLY renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2C ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CLONE	-	085 (077.0)	-7.5	14.8	-	-	-	-	RNAV1
003	TF	TT460	-	068 (060.7)	-7.5	10.1	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.5	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	345 (337.7)	-7.5	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	345 (337.7)	-7.5	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.5	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.5	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.5	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.5	14.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

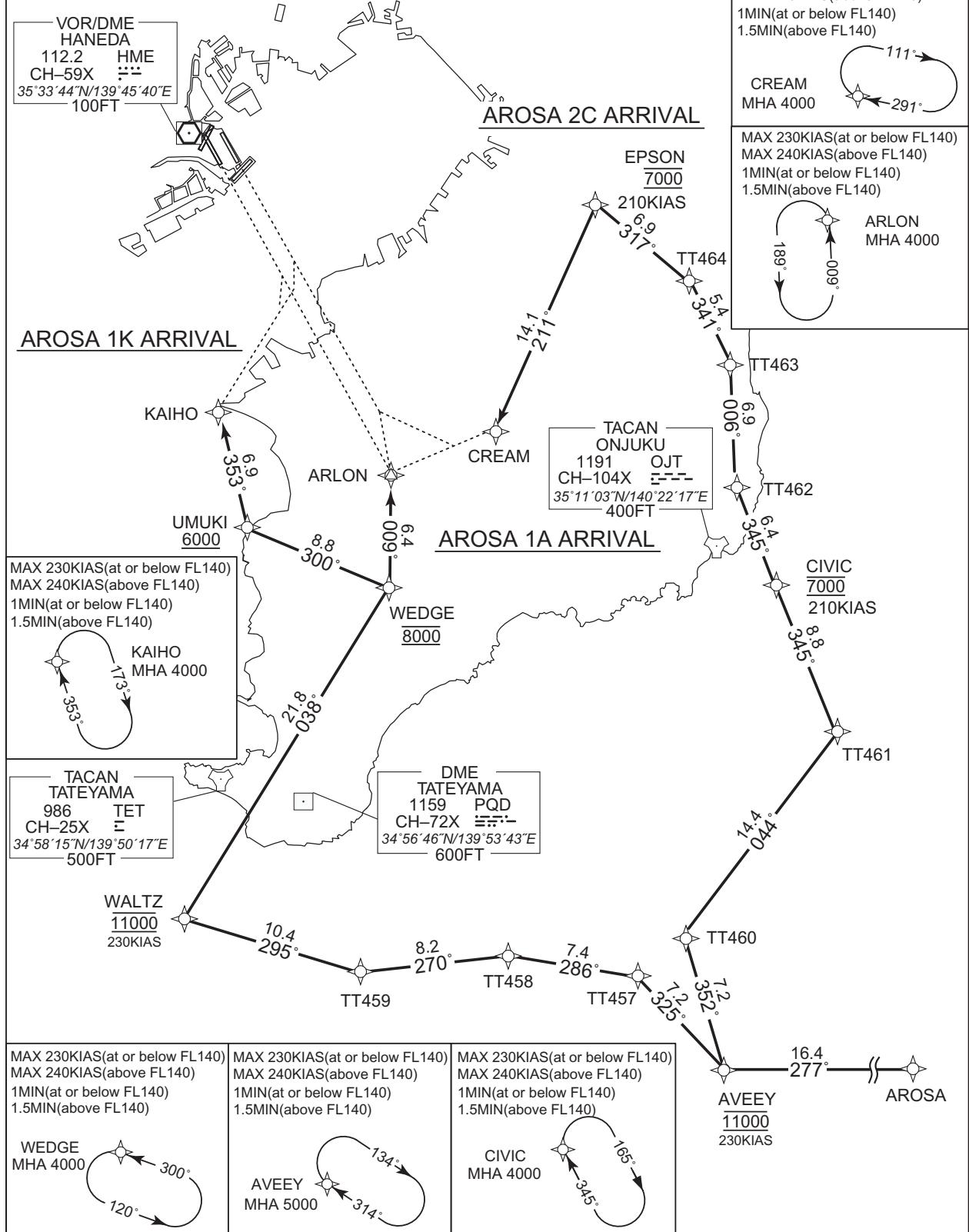
AROSA 1A ARRIVAL / AROSA 1K ARRIVAL  
AROSA 2C ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1A ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	TT457	-	325 (317.5)	-7.5	7.2	-	-	-	-	RNAV1
004	TF	TT458	-	286 (278.5)	-7.5	7.4	-	-	-	-	RNAV1
005	TF	TT459	-	270 (262.3)	-7.5	8.2	-	-	-	-	RNAV1
006	TF	WALTZ	-	295 (287.0)	-7.5	10.4	-	11000	230	-	RNAV1
007	TF	WEDGE	-	038 (030.6)	-7.5	21.8	-	8000	-	-	RNAV1
008	TF	ARLON	-	009 (001.6)	-7.5	6.4	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : AVEEY renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1K ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	TT457	-	325 (317.5)	-7.5	7.2	-	-	-	-	RNAV1
004	TF	TT458	-	286 (278.5)	-7.5	7.4	-	-	-	-	RNAV1
005	TF	TT459	-	270 (262.3)	-7.5	8.2	-	-	-	-	RNAV1
006	TF	WALTZ	-	295 (287.0)	-7.5	10.4	-	11000	230	-	RNAV1
007	TF	WEDGE	-	038 (030.6)	-7.5	21.8	-	8000	-	-	RNAV1
008	TF	UMUKI	-	300 (292.2)	-7.5	8.8	-	+6000	-	-	RNAV1
009	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : AVEEY renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 2C ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	TT460	-	352 (344.5)	-7.5	7.2	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.5	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	345 (337.7)	-7.5	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	345 (337.7)	-7.5	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.5	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.5	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.5	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.5	14.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

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

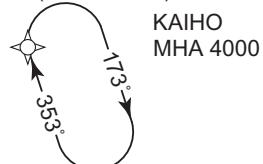
RNAV 1

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

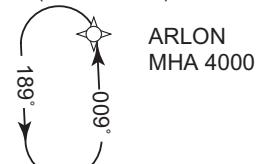
2) RADAR service required.

VAR 8° W(2019)

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



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



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

DME  
MORIYA  
1174 SND  
CH-87X :::  
35°56'05"N/139°58'53"E  
100FT

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

COPSE

COACH  
8000 210KIAS

NARITA INTL AP

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

TT465

TT466

TT467

TT468

TT469

UMUKI  
6000

KAIHO

ARLON

CREAM

EDDIE  
8000 210KIAS

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

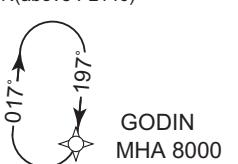
GODIN 1C ARRIVAL

GODIN 2K ARRIVAL

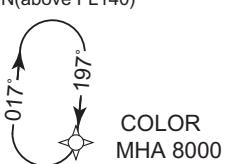
GODIN 2A ARRIVAL

CHANGE : HOKUSO VOR/DME(HKE) abolished.

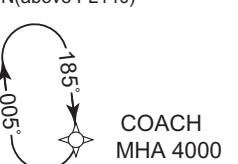
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)



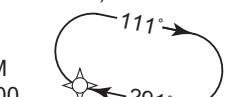
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)



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



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



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

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

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2A ARRIVAL

From GODIN, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to TT469, to ARLON.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.5	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.5	6.7	-	-	-	-	RNAV1
011	TF	TT469	-	278 (270.2)	-7.5	6.9	-	-	-	-	RNAV1
012	TF	ARLON	-	308 (300.2)	-7.5	6.2	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2K ARRIVAL

From GODIN ,to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to TT469, to UMUKI at or above 6000FT, to KAIHO.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.5	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.5	6.7	-	-	-	-	RNAV1
011	TF	TT469	-	278 (270.2)	-7.5	6.9	-	-	-	-	RNAV1
012	TF	UMUKI	-	278 (270.2)	-7.5	13.7	-	+6000	-	-	RNAV1
013	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1C ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.5	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.5	13.0	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARLON	351525.3N / 1395859.8E	KAIHO	351857.8N / 1394642.4E
CHIPS	361247.7N / 1401436.9E	TT465	352939.2N / 1401235.4E
COACH	353736.0N / 1401231.5E	TT466	352539.0N / 1401840.1E
COLOR	360116.3N / 1401219.8E	TT467	352110.2N / 1402124.4E
COPSE	354658.8N / 1401205.4E	TT468	351216.4N / 1401402.6E
CREAM	351743.4N / 1400612.4E	TT469	351217.9N / 1400534.7E
EDDIE	351447.4N / 1402140.9E	UMUKI	351219.1N / 1394849.2E
GODIN	362425.3N / 1401655.9E		

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2A ARRIVAL / POLIX 2K ARRIVAL  
POLIX 1C ARRIVAL

RNAV 1

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

VAR 8° W(2019)

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

KAIHO  
MHA 4000

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

ARLON  
MHA 4000

CHIPS  
13000 9.5 279° POLIX  
FL150

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

POLIX  
MHA 11000 310° 130°

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

COLOR  
MHA 8000

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

COACH  
MHA 4000

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

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

CREAM  
MHA 4000

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

CHANGE : HOKUSO VOR/DME(HKE) abolished.

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

KAIHO

ARLON  
13.7 278° 6.2 278° 6.9 256°  
UMUKI 6000 TT469 TT468 TT467

CREAM  
13.0 291° 6.1 186°  
EDDIE 8000 210KIAS

POLIX 1C ARRIVAL

POLIX 2A ARRIVAL

POLIX 2K ARRIVAL

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

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

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2A ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to TT469, to ARLON.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.5	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.5	6.7	-	-	-	-	RNAV1
011	TF	TT469	-	278 (270.2)	-7.5	6.9	-	-	-	-	RNAV1
012	TF	ARLON	-	308 (300.2)	-7.5	6.2	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2K ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to TT469, to UMUKI at or above 6000FT, to KAIHO.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.5	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.5	6.7	-	-	-	-	RNAV1
011	TF	TT469	-	278 (270.2)	-7.5	6.9	-	-	-	-	RNAV1
012	TF	UMUKI	-	278 (270.2)	-7.5	13.7	-	+6000	-	-	RNAV1
013	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1C ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	—	—	-7.5	—	—	FL150	—	—	RNAV1
002	TF	CHIPS	—	279 (271.1)	-7.5	9.5	—	-13000	—	—	RNAV1
003	TF	COLOR	—	197 (189.1)	-7.5	11.7	—	-11000	—	—	RNAV1
004	TF	COPSE	—	188 (180.8)	-7.5	14.3	—	—	—	—	RNAV1
005	TF	COACH	—	185 (177.8)	-7.5	9.4	—	8000	210	—	RNAV1
006	TF	TT465	—	187 (179.6)	-7.5	8.0	—	—	—	—	RNAV1
007	TF	TT466	—	136 (128.9)	-7.5	6.4	—	—	—	—	RNAV1
008	TF	TT467	—	161 (153.5)	-7.5	5.0	—	—	—	—	RNAV1
009	TF	EDDIE	—	186 (178.0)	-7.5	6.4	—	8000	210	—	RNAV1
010	TF	CREAM	—	291 (283.1)	-7.5	13.0	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARLON	351525.3N / 1395859.8E	POLIX	361237.1N / 1402622.5E
CHIPS	361247.7N / 1401436.9E	TT465	352939.2N / 1401235.4E
COACH	353736.0N / 1401231.5E	TT466	352539.0N / 1401840.1E
COLOR	360116.3N / 1401219.8E	TT467	352110.2N / 1402124.4E
COPSE	354658.8N / 1401205.4E	TT468	351216.4N / 1401402.6E
CREAM	351743.4N / 1400612.4E	TT469	351217.9N / 1400534.7E
EDDIE	351447.4N / 1402140.9E	UMUKI	351219.1N / 1394849.2E
KAIHO	351857.8N / 1394642.4E		

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

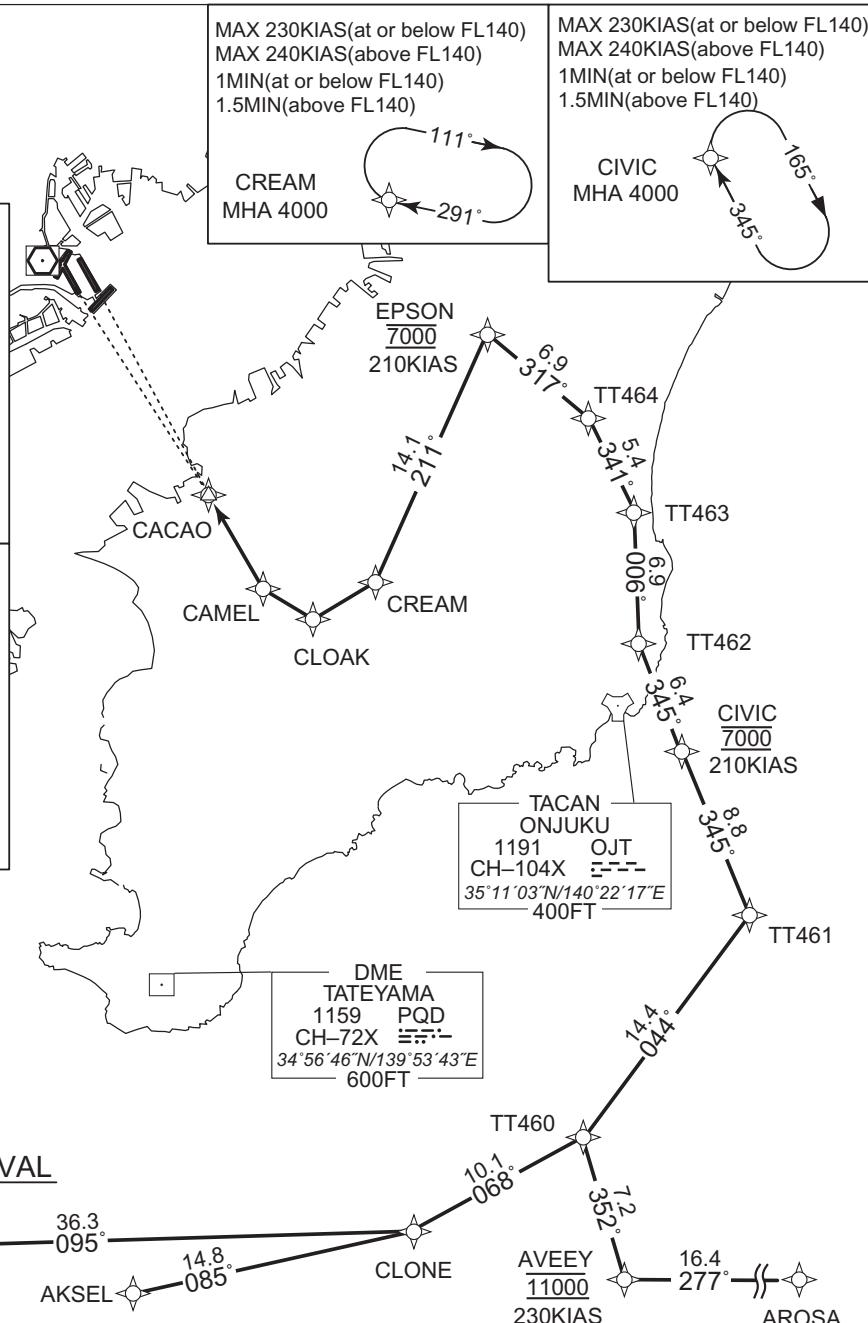
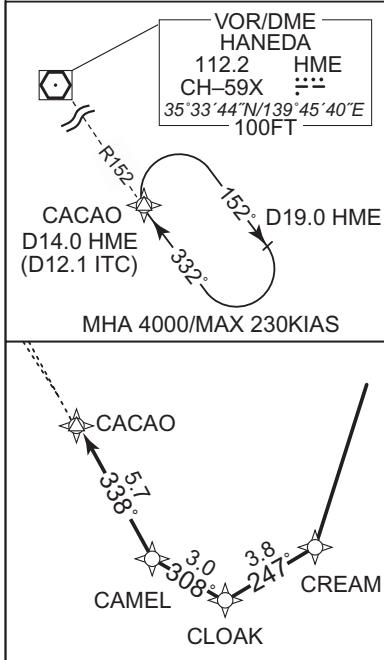
RNAV STAR RWY34R/34L

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

RNAV 1

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

VAR 8° W(2019)



CHANGE : AVEEY renamed

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

OSHIMA(XAC)  
MHA 5000

098° → 278°

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

AKSEL  
MHA 5000

039° → 219°

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

AVEEY  
MHA 5000

134° → 314°

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2H ARRIVAL

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

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	CLONE	—	095 (087.8)	-7.5	36.3	—	—	—	—	RNAV1
003	TF	TT460	—	068 (060.7)	-7.5	10.1	—	—	—	—	RNAV1
004	TF	TT461	—	044 (036.1)	-7.5	14.4	—	—	—	—	RNAV1
005	TF	CIVIC	—	345 (337.7)	-7.5	8.8	—	7000	210	—	RNAV1
006	TF	TT462	—	345 (337.7)	-7.5	6.4	—	—	—	—	RNAV1
007	TF	TT463	—	006 (358.0)	-7.5	6.9	—	—	—	—	RNAV1
008	TF	TT464	—	341 (333.5)	-7.5	5.4	—	—	—	—	RNAV1
009	TF	EPSON	—	317 (309.0)	-7.5	6.9	—	7000	210	—	RNAV1
010	TF	CREAM	—	211 (203.6)	-7.5	14.1	—	—	—	—	RNAV1
011	TF	CLOAK	—	247 (240.0)	-7.5	3.8	—	—	—	—	RNAV1
012	TF	CAMEL	—	308 (300.1)	-7.5	3.0	—	—	—	—	RNAV1
013	TF	CACAO	—	338 (330.1)	-7.5	5.7	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2H ARRIVAL

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

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	CLONE	—	085 (077.0)	-7.5	14.8	—	—	—	—	RNAV1
003	TF	TT460	—	068 (060.7)	-7.5	10.1	—	—	—	—	RNAV1
004	TF	TT461	—	044 (036.1)	-7.5	14.4	—	—	—	—	RNAV1
005	TF	CIVIC	—	345 (337.7)	-7.5	8.8	—	7000	210	—	RNAV1
006	TF	TT462	—	345 (337.7)	-7.5	6.4	—	—	—	—	RNAV1
007	TF	TT463	—	006 (358.0)	-7.5	6.9	—	—	—	—	RNAV1
008	TF	TT464	—	341 (333.5)	-7.5	5.4	—	—	—	—	RNAV1
009	TF	EPSON	—	317 (309.0)	-7.5	6.9	—	7000	210	—	RNAV1
010	TF	CREAM	—	211 (203.6)	-7.5	14.1	—	—	—	—	RNAV1
011	TF	CLOAK	—	247 (240.0)	-7.5	3.8	—	—	—	—	RNAV1
012	TF	CAMEL	—	308 (300.1)	-7.5	3.0	—	—	—	—	RNAV1
013	TF	CACAO	—	338 (330.1)	-7.5	5.7	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 2H ARRIVAL

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

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	TT460	-	352 (344.5)	-7.5	7.2	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.5	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	345 (337.7)	-7.5	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	345 (337.7)	-7.5	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.5	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.5	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.5	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.5	14.1	-	-	-	-	RNAV1
011	TF	CLOAK	-	247 (240.0)	-7.5	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.5	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.5	5.7	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

Waypoint Coordinates

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

CHANGE : AVEEY renamed

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STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

GODIN 1H ARRIVAL  
POLIX 1H ARRIVAL

RNAV STAR RWY34R/34L

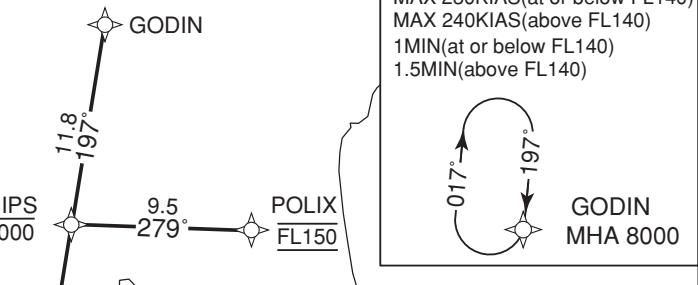
RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

GODIN 1H ARRIVAL



POLIX 1H ARRIVAL

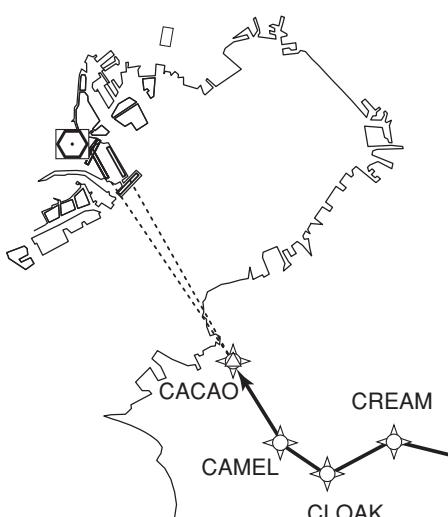
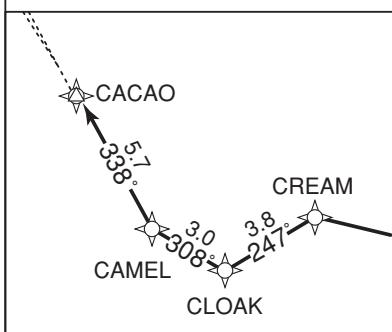
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

POLIX MHA 11000  
310°  
730°

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

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

COACH MHA 4000  
900°  
580°



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

CHANGE : New PROC

CACAO  
D14.0 HME  
(D12.1 ITC)  
332°  
D19.0 HME  
MHA 4000/MAX 230KIAS

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

CREAM  
MHA 4000

TACAN  
ONJUKU  
1191 OJT  
CH-104X  $\cdots$   
 $35^{\circ}11'03"N/140^{\circ}22'17"E$   
400FT

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1H ARRIVAL

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

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.5	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.5	13.0	-	-	-	-	RNAV1
011	TF	CLOAK	-	247 (240.0)	-7.5	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.5	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.5	5.7	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1H ARRIVAL

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

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.5	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.5	13.0	-	-	-	-	RNAV1
011	TF	CLOAK	-	247 (240.0)	-7.5	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.5	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.5	5.7	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

Waypoint Coordinates

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

OSHIMA 1N ARRIVAL  
OSHIMA 2N ARRIVAL

RNAV STAR RWY22/23

RNAV 1

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

VAR 8° W(2019)



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1N ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	ACORN	—	068 (060.8)	-7.5	15.9	—	13000	230	—	RNAV1
003	TF	SOLAR	—	026 (018.4)	-7.5	9.1	—	13000	230	—	RNAV1
004	TF	SCOUT	—	052 (044.3)	-7.5	10.1	—	—	—	—	RNAV1
005	TF	TT250	—	131 (123.1)	-7.5	9.0	—	—	—	—	RNAV1
006	TF	TT251	—	110 (102.5)	-7.5	7.1	—	—	—	—	RNAV1
007	TF	TT252	—	092 (084.3)	-7.5	7.1	—	—	—	—	RNAV1
008	TF	STOCK	—	071 (063.6)	-7.5	9.0	—	13000	230	—	RNAV1
009	TF	SHAFT	—	330 (322.4)	-7.5	22.5	—	8000	—	—	RNAV1
010	TF	NYLON	—	357 (350.0)	-7.5	18.1	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ACORN	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : SOLAR renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2N ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AKSEL	-	103 (095.3)	-7.5	22.0	-	12000	230	-	RNAV1
003	TF	LAFIT	-	067 (059.5)	-7.5	15.3	-	-10000	-	-	RNAV1
004	TF	STING	-	067 (059.6)	-7.5	7.0	-	-9000	-	-	RNAV1
005	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
006	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
007	TF	NYLON	-	357 (350.0)	-7.5	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : SOLAR renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23



CHANGE : SOLAR renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1B ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	ACORN	-	068 (060.8)	-7.5	15.9	-	13000	230	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.5	9.1	-	13000	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.5	10.1	-	-	-	-	RNAV1
005	TF	TT250	-	131 (123.1)	-7.5	9.0	-	-	-	-	RNAV1
006	TF	TT251	-	110 (102.5)	-7.5	7.1	-	-	-	-	RNAV1
007	TF	TT252	-	092 (084.3)	-7.5	7.1	-	-	-	-	RNAV1
008	TF	STOCK	-	071 (063.6)	-7.5	9.0	-	13000	230	-	RNAV1
009	TF	SHAFT	-	330 (322.4)	-7.5	22.5	-	8000	-	-	RNAV1
010	TF	BACON	-	003 (355.2)	-7.5	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ACORN	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : SOLAR renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2B ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AKSEL	-	103 (095.3)	-7.5	22.0	-	12000	230	-	RNAV1
003	TF	LAFIT	-	067 (059.5)	-7.5	15.3	-	-10000	-	-	RNAV1
004	TF	STING	-	067 (059.6)	-7.5	7.0	-	-9000	-	-	RNAV1
005	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
006	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
007	TF	BACON	-	003 (355.2)	-7.5	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : SOLAR renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL  
AKSEL 2N ARRIVAL

RNAV 1

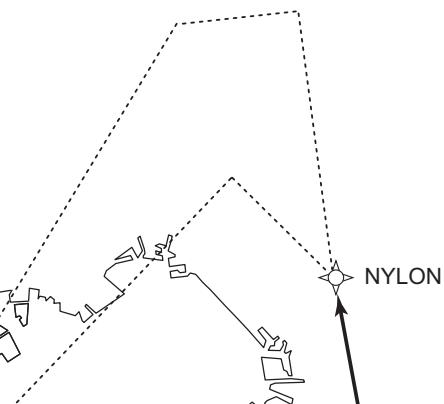
Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

VAR 8° W(2019)

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

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



NYLON

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

NYLON  
MHA 4000  
357°

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

SHAFT  
MHA 4000  
150°

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

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

AKSEL 1N ARRIVAL

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

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

SALLY  
12000  
230KIAS

TT253  
7.6  
109°

TT254  
7.6  
092°

TT255  
0.5  
071°

SPARK  
7000

STOWE  
12000  
230KIAS

048°

023°

13.4°

15.3°

067°

061°

1.0°

LAFIT  
10000

STING  
9000

AKSEL  
12000  
230KIAS

CHANGE : STOWE renamed

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

AKSEL  
MHA 5000

039°  
219°

AKSEL 2N ARRIVAL

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

STING  
MHA 4000  
067°  
241°

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	SALLY	-	023 (015.0)	-7.5	13.4	-	12000	230	-	RNAV1
003	TF	TT253	-	048 (040.5)	-7.5	8.5	-	-	-	-	RNAV1
004	TF	TT254	-	109 (102.0)	-7.5	7.6	-	-	-	-	RNAV1
005	TF	TT255	-	092 (084.4)	-7.5	7.6	-	-	-	-	RNAV1
006	TF	STOWE	-	071 (063.6)	-7.5	9.6	-	12000	230	-	RNAV1
007	TF	SHAFT	-	330 (322.4)	-7.5	24.0	-	8000	-	-	RNAV1
008	TF	NYLON	-	357 (350.0)	-7.5	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : STOWE renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 2N ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	LAFIT	-	067 (059.5)	-7.5	15.3	-	-10000	-	-	RNAV1
003	TF	STING	-	067 (059.6)	-7.5	7.0	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
006	TF	NYLON	-	357 (350.0)	-7.5	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : STOWE renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL  
AKSEL 2B ARRIVAL

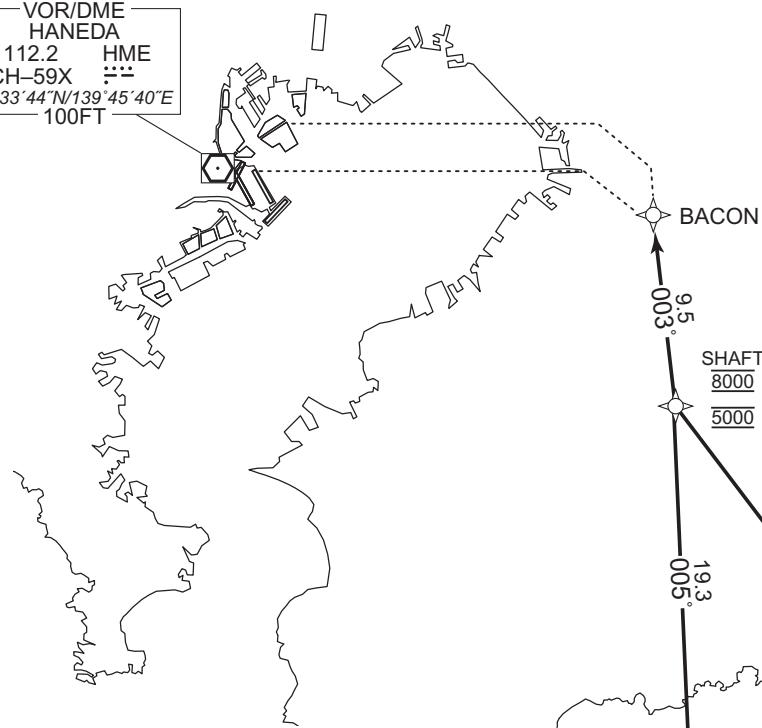
RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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



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

BACON  
MHA 4000  
183° ↘ 003°

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

SHAFT  
MHA 4000  
150° ↘ 330°

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

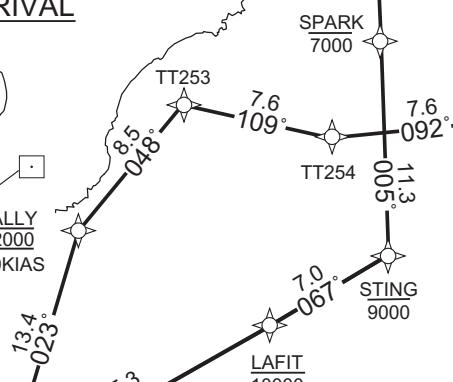
TACAN  
ONJUKU  
1191 OJT  
CH-104X   
35°11'03"N/140°22'17"E  
400FT

AKSEL 1B ARRIVAL

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

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

SALLY  
12000  
230KIAS



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

AKSEL  
MHA 5000  
039° ↗ 219°

AKSEL  
12000  
230KIAS

AKSEL 2B ARRIVAL

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

STING  
MHA 4000  
067° ↗ 241°

CHANGE : STOWE renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	SALLY	-	023 (015.0)	-7.5	13.4	-	12000	230	-	RNAV1
003	TF	TT253	-	048 (040.5)	-7.5	8.5	-	-	-	-	RNAV1
004	TF	TT254	-	109 (102.0)	-7.5	7.6	-	-	-	-	RNAV1
005	TF	TT255	-	092 (084.4)	-7.5	7.6	-	-	-	-	RNAV1
006	TF	STOWE	-	071 (063.6)	-7.5	9.6	-	12000	230	-	RNAV1
007	TF	SHAFT	-	330 (322.4)	-7.5	24.0	-	8000	-	-	RNAV1
008	TF	BACON	-	003 (355.2)	-7.5	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : STOWE renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 2B ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	LAFIT	-	067 (059.5)	-7.5	15.3	-	-10000	-	-	RNAV1
003	TF	STING	-	067 (059.6)	-7.5	7.0	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
006	TF	BACON	-	003 (355.2)	-7.5	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

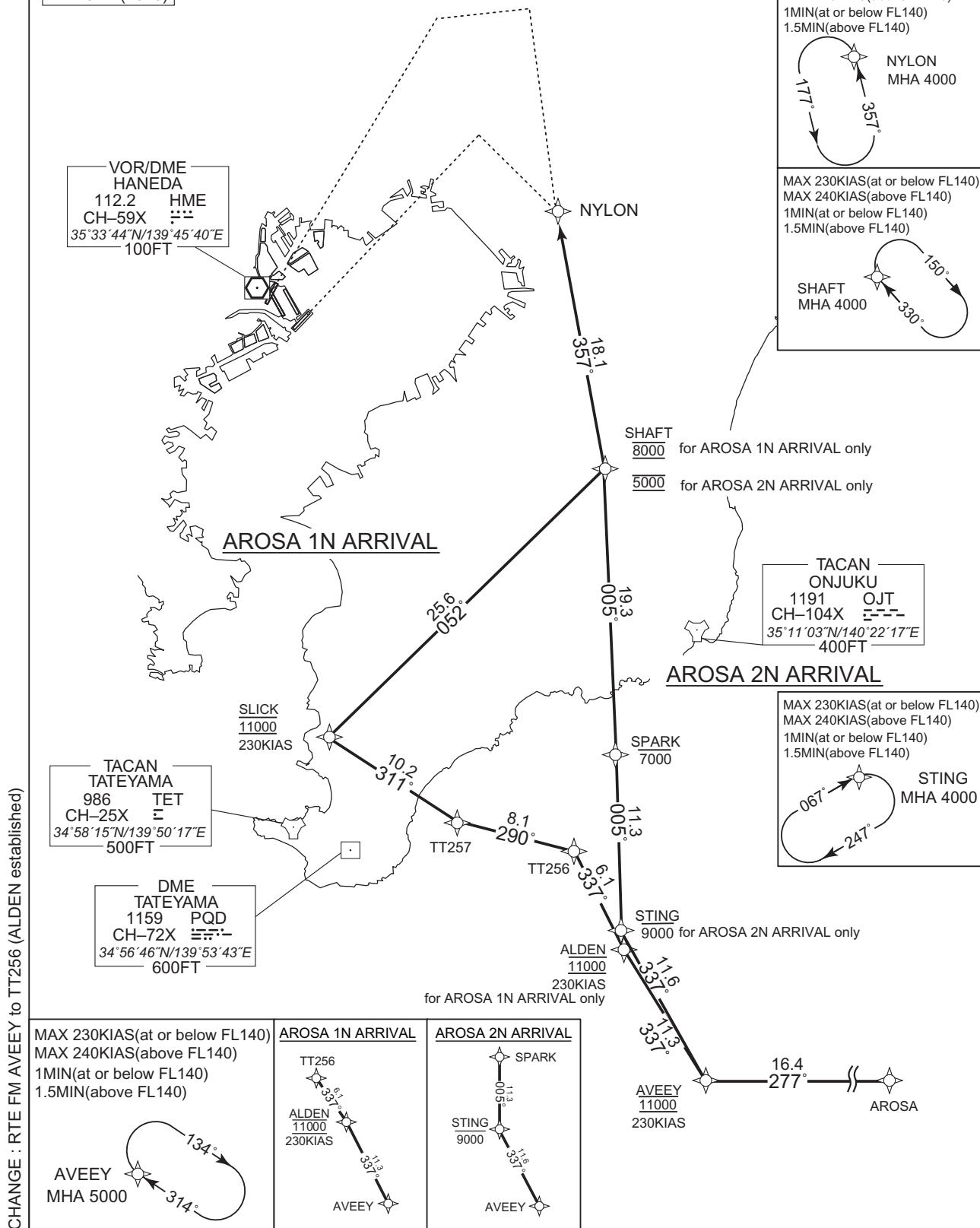
AROSA 1N ARRIVAL  
AROSA 2N ARRIVAL

RNAV STAR RWY22/23

RNAV 1

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

VAR 8° W(2019)



CHANGE : RTE FM AVEEY to TT256 (ALDEN established)

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1N ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	337 (330.0)	-7.5	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	337 (329.9)	-7.5	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.5	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.5	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.5	25.6	-	8000	-	-	RNAV1
008	TF	NYLON	-	357 (350.0)	-7.5	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : RTE FM AVEEY to TT256 (ALDEN established). HLDG pattern at STING deleted.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2N ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	STING	-	337 (330.0)	-7.5	11.6	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
006	TF	NYLON	-	357 (350.0)	-7.5	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : ALDEN established

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

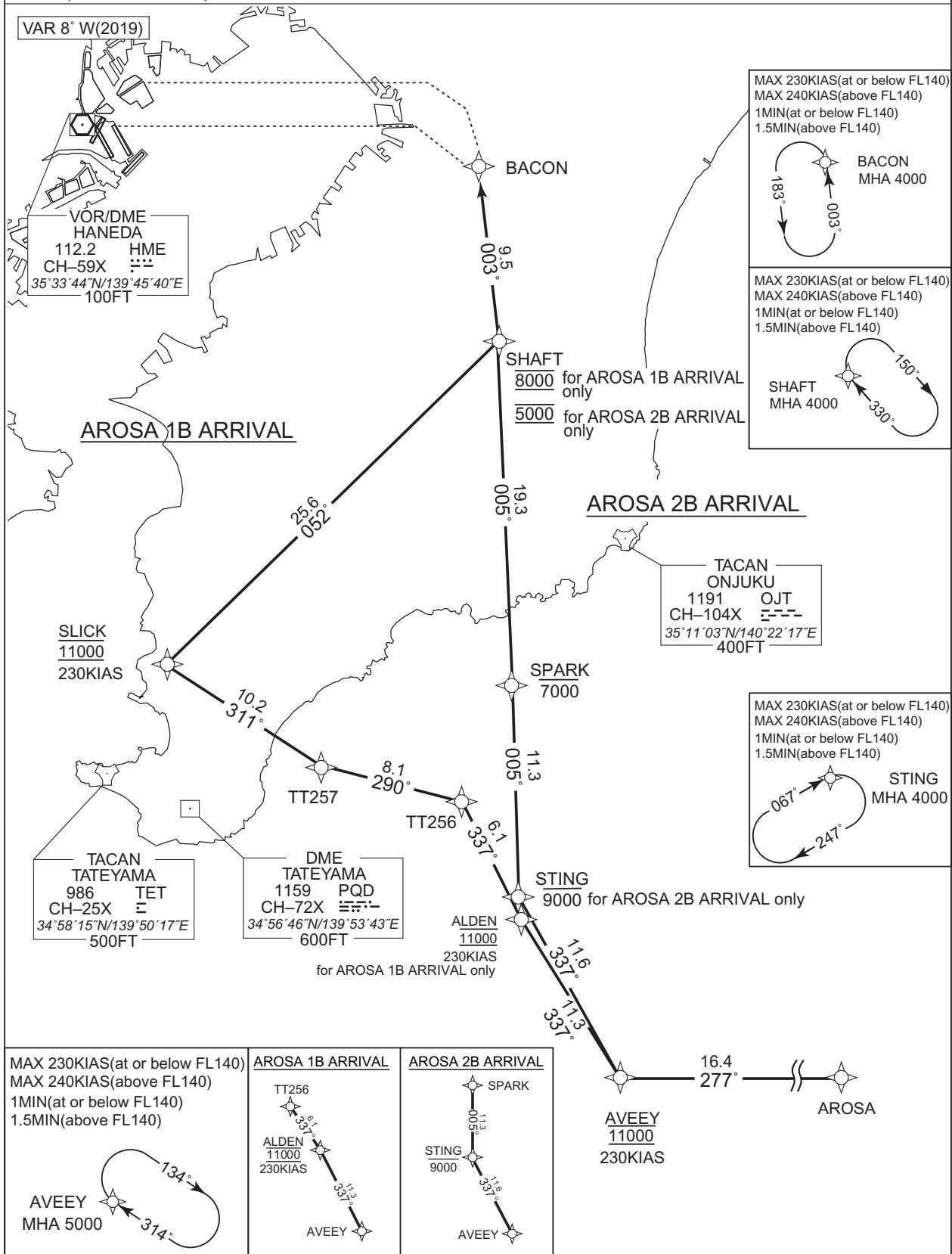
RNAV STAR RWY22/23

AROSA 1B ARRIVAL  
AROSA 2B ARRIVAL

RNAV 1

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

2) RADAR service required.



CHANGE : RTE FM AVEEY to TT256 (ALDEN established)

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1B ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	337 (330.0)	-7.5	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	337 (329.9)	-7.5	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.5	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.5	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.5	25.6	-	8000	-	-	RNAV1
008	TF	BACON	-	003 (355.2)	-7.5	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : RTE FM AVEEY to TT256 (ALDEN established). HLDG pattern at STING deleted.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2B ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	STING	-	337 (330.0)	-7.5	11.6	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
006	TF	BACON	-	003 (355.2)	-7.5	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : ALDEN established

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

GODIN 1S ARRIVAL  
GODIN 1D ARRIVAL

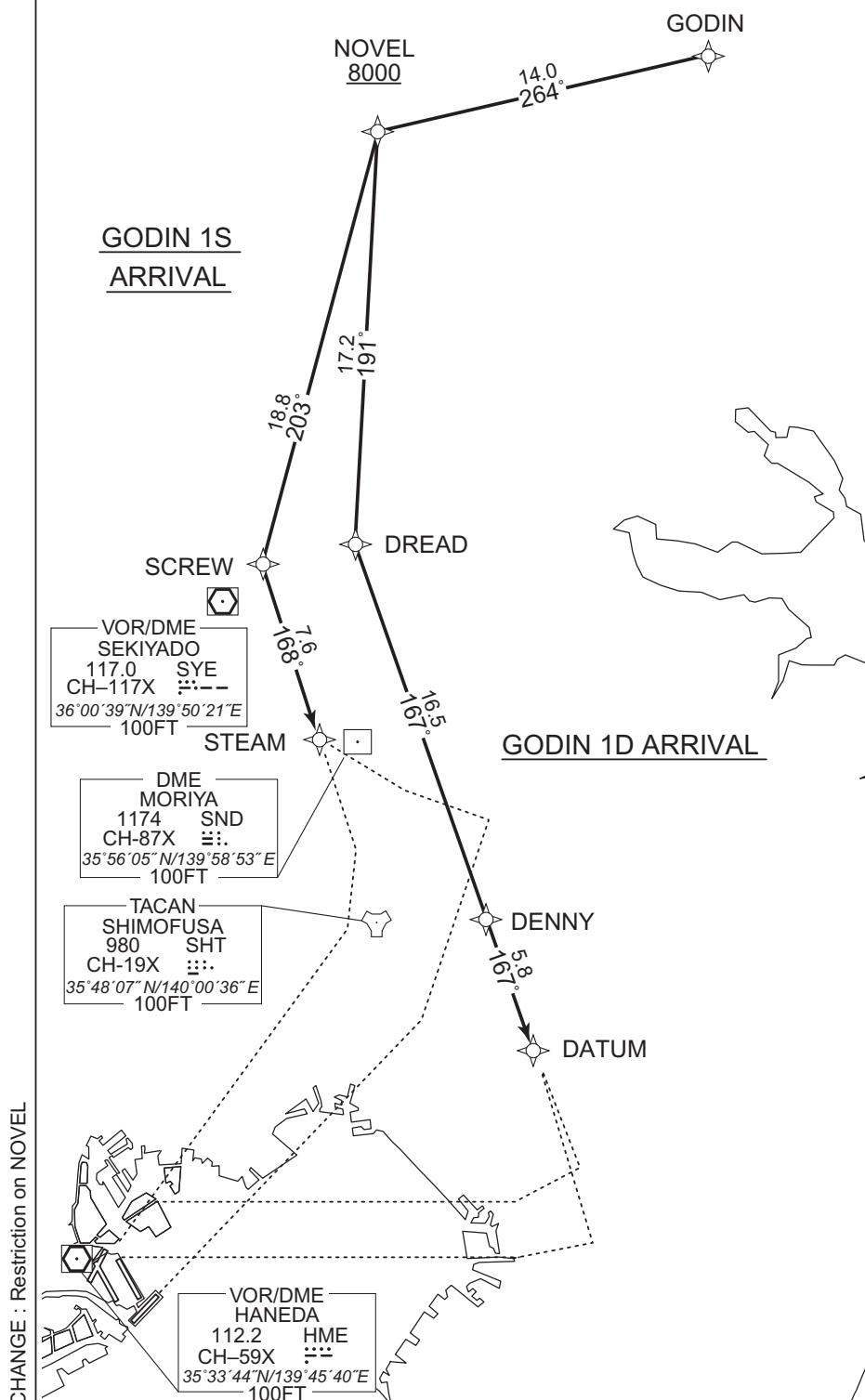
RNAV STAR RWY22/23

RNAV 1

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

2 ) RADAR service required.

VAR 8° W(2019)



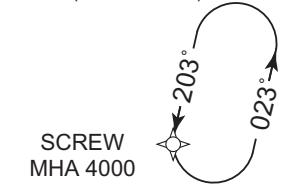
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)



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



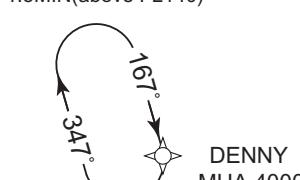
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)



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



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



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1S ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	+8000	-	-	RNAV1
003	TF	SCREW	-	203 (195.2)	-7.5	18.8	-	-	-	-	RNAV1
004	TF	STEAM	-	168 (160.4)	-7.5	7.6	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1D ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	+8000	-	-	RNAV1
003	TF	DREAD	-	191 (183.1)	-7.5	17.2	-	-	-	-	RNAV1
004	TF	DENNY	-	167 (159.9)	-7.5	16.5	-	-	-	-	RNAV1
005	TF	DATUM		167 (160.0)	-7.5	5.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : Restriction on NOVEL

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1S ARRIVAL  
POLIX 1D ARRIVAL

RNAV 1

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

2 ) RADAR service required.

VAR 8° W(2019)



POLIX 1D ARRIVAL

SCREW

VOR/DME  
SEKIYADO  
117.0 SYE  
CH-117X :::  
36°00'39"N/139°50'21"E  
100FT

DME  
MORIYA  
1174 SND  
CH-87X :::  
35°56'05"N/139°58'53"E  
100FT

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

CHANGE : Restriction on NOVEL

STEAM → 89° → 191° → DENDY → 58° → DATUM

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

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

SCREW MHA 4000

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

DATUM → 191° → 011° → DREAD MHA 5000

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

DENDY MHA 4000

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

POLIX MHA 11000

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

DREAD MHA 5000

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

GODIN MHA 8000

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

NOVEL MHA 5000

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

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1S ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	GODIN	-	335 (327.2)	-7.5	14.1	-	-	-	-	RNAV1
003	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	+8000	-	-	RNAV1
004	TF	SCREW	-	203 (195.2)	-7.5	18.8	-	-	-	-	RNAV1
005	TF	STEAM	-	168 (160.4)	-7.5	7.6	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : Restriction on NOVEL

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1D ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	GODIN	-	335 (327.2)	-7.5	14.1	-	-	-	-	RNAV1
003	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	+8000	-	-	RNAV1
004	TF	DREAD	-	191 (183.1)	-7.5	17.2	-	-	-	-	RNAV1
005	TF	DENNY	-	167 (159.9)	-7.5	16.5	-	-	-	-	RNAV1
006	TF	DATUM	-	167 (160.0)	-7.5	5.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL  
OSHIMA R ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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

NUMAN  
MHA 4000

180°  
360°

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

SNARE  
MHA 4000

177°  
297°

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

SPINE  
MHA 4000

168°  
348°

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

NEURO  
MHA 4000

110°  
290°

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

ACORN  
MHA 5000

248°  
068°

NURSE 9000 210KIAS  
NIGEL 6000  
NEURO 6000  
NATTY 52° 252°  
SANDY T6L60  
SNARE 6000  
SOPPY 7000  
NUMAN 9000 210KIAS  
NORIK 59° 59°  
T6R72 375° 345°  
T6R71 345° 325°  
T6R70 330° 310°  
SNOKE 110° 090°  
SHAFT 9000 070° 050°  
SCOPE 10000 036° 016°  
SCOUT 140° 090°  
TT250 110° 070°  
TT251 110° 070°  
TT252 110° 070°  
STOCK 13000 230KIAS  
SOLAR 230KIAS 13000 for OSHIMA L ARRIVAL only

OSHIMA R ARRIVAL

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

OSHIMA(XAC)  
MHA 5000

098°  
278°

OSHIMA L ARRIVAL  
SPINE 84° 89°  
SNOKE 134° 111°  
SHAFT 9000

OSHIMA R ARRIVAL  
NUMAN 9000 210KIAS  
111°  
360°  
T6R70 140° 036°  
SCOPE 10000

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL

From XAC, to ACORN, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to T6L60, to SANDY.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	ACORN	-	068 (060.8)	-7.5	15.9	-	-	-	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.5	9.1	-	13000	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.5	10.1	-	-	-	-	RNAV1
005	TF	TT250	-	131 (123.1)	-7.5	9.0	-	-	-	-	RNAV1
006	TF	TT251	-	110 (102.5)	-7.5	7.1	-	-	-	-	RNAV1
007	TF	TT252	-	092 (084.3)	-7.5	7.1	-	-	-	-	RNAV1
008	TF	STOCK	-	071 (063.6)	-7.5	9.0	-	13000	230	-	RNAV1
009	TF	SHAFT	-	330 (322.4)	-7.5	22.5	-	9000		-	RNAV1
010	TF	SNOKE	-	011 (003.4)	-7.5	13.4	-	-	-	-	RNAV1
011	TF	SPINE	-	348 (340.6)	-7.5	6.8	-	-	-	-	RNAV1
012	TF	SOPPY	-	297 (289.2)	-7.5	8.4	-	-7000	-	-	RNAV1
013	TF	SNARE	-	297 (289.1)	-7.5	7.8	-	6000	-	-	RNAV1
014	TF	T6L60	-	297 (289.0)	-7.5	3.4	-	-	-	-	RNAV1
015	TF	SANDY	-	288 (280.0)	-7.5	3.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ACORN	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA R ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	ACORN	-	068 (060.8)	-7.5	15.9	-	-	-	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.5	9.1	-	-	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.5	10.1	-	-	-	-	RNAV1
005	TF	SCOPE	-	036 (028.5)	-7.5	20.0	-	10000	-	-	RNAV1
006	TF	T6R70	-	036 (028.6)	-7.5	14.0	-	-	-	-	RNAV1
007	TF	NUMAN	-	360 (352.5)	-7.5	11.1	-	9000	210	-	RNAV1
008	TF	NORIK	-	360 (352.5)	-7.5	7.3	-	-	-	-	RNAV1
009	TF	T6R71	-	006 (358.9)	-7.5	6.5	-	-	-	-	RNAV1
010	TF	T6R72	-	342 (334.4)	-7.5	5.0	-	-	-	-	RNAV1
011	TF	NURSE	-	317 (309.8)	-7.5	6.5	-	9000	210	-	RNAV1
012	TF	NEURO	-	213 (205.5)	-7.5	13.5	-	6000	-	-	RNAV1
013	TF	NIGEL	-	252 (244.1)	-7.5	3.1	-	6000	-	-	RNAV1
014	TF	NATTY	-	252 (244.1)	-7.5	5.2	-	-	-	-	RNAV1

CHANGE : Correction of misdescription (Waypoint Identifier of the row with Serial Number 006)

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ACORN	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ACORN	345028.8N / 1394146.7E	SOLAR	345909.2N / 1394518.5E
NATTY	355350.9N / 1394531.3E	SOPPY	354458.8N / 1400140.3E
NEURO	355727.6N / 1395441.3E	SPINE	354213.5N / 1401125.8E
NIGEL	355607.5N / 1395117.8E	STOCK	350438.7N / 1403002.9E
NORIK	355428.9N / 1401054.5E	T6L60	354838.2N / 1394838.4E
NUMAN	354714.4N / 1401204.9E	T6R70	353614.4N / 1401351.4E
NURSE	360939.3N / 1400153.3E	T6R71	360059.5N / 1401045.1E
SANDY	354917.5N / 1394402.8E	T6R72	360530.2N / 1400804.3E
SCOPE	352358.4N / 1400538.3E	TT250	350129.7N / 1400308.5E
SCOUT	350624.1N / 1395356.8E	TT251	345957.7N / 1401136.0E
SHAFT	352227.4N / 1401313.3E	TT252	350039.9N / 1402013.0E
SNARE	354731.1N / 1395238.1E	XAC	344244.1N / 1392450.5E
SNOKE	353551.6N / 1401411.7E		

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL  
AKSEL R ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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

NUMAN  
MHA 4000  
180°  
360°

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

NEURO  
MHA 4000  
110°  
290°

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

SNARE  
MHA 4000

717°  
297°

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

SPINE  
MHA 4000

168°  
348°

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

SHAFT  
MHA 4000

150°  
330°

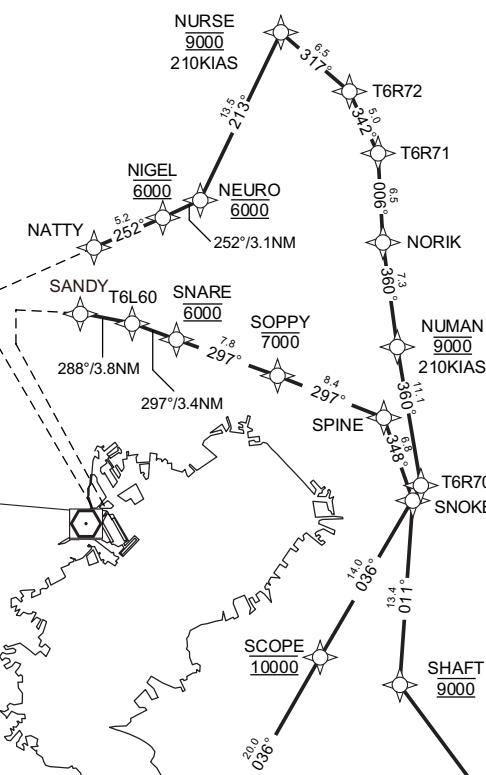
VOR/DME  
HANEDA  
112.2 HME  
CH-59X  
35°33'44"N/139°45'40"E  
100FT

AKSEL R ARRIVAL

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

AKSEL  
MHA 5000

039°  
219°



AKSEL L ARRIVAL

AKSEL L ARRIVAL

SPINE  
MHA 4000  
6.8  
348°  
SNOKE  
134°  
111°  
SHAFT  
9000

AKSEL R ARRIVAL

NUMAN  
9000  
210KIAS  
360°  
111°  
T6R70  
140°  
036°  
SCOPE  
10000

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL

From AKSEL, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to T6L60, to SANDY.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	SALLY	—	023 (015.0)	-7.5	13.4	—	12000	230	—	RNAV1
003	TF	TT253	—	048 (040.5)	-7.5	8.5	—	—	—	—	RNAV1
004	TF	TT254	—	109 (102.0)	-7.5	7.6	—	—	—	—	RNAV1
005	TF	TT255	—	092 (084.4)	-7.5	7.6	—	—	—	—	RNAV1
006	TF	STOWE	—	071 (063.6)	-7.5	9.6	—	12000	230	—	RNAV1
007	TF	SHAFT	—	330 (322.4)	-7.5	24.0	—	9000	—	—	RNAV1
008	TF	SNOKE	—	011 (003.4)	-7.5	13.4	—	—	—	—	RNAV1
009	TF	SPINE	—	348 (340.6)	-7.5	6.8	—	—	—	—	RNAV1
010	TF	SOPPY	—	297 (289.2)	-7.5	8.4	—	-7000	—	—	RNAV1
011	TF	SNARE	—	297 (289.1)	-7.5	7.8	—	6000	—	—	RNAV1
012	TF	T6L60	—	297 (289.0)	-7.5	3.4	—	—	—	—	RNAV1
013	TF	SANDY	—	288 (280.0)	-7.5	3.8	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL R ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	SALLY	—	023 (015.0)	-7.5	13.4	—	—	230	—	RNAV1
003	TF	SCOUT	—	001 (353.7)	-7.5	12.9	—	—	—	—	RNAV1
004	TF	SCOPE	—	036 (028.5)	-7.5	20.0	—	10000	—	—	RNAV1
005	TF	T6R70	—	036 (028.6)	-7.5	14.0	—	—	—	—	RNAV1
006	TF	NUMAN	—	360 (352.5)	-7.5	11.1	—	9000	210	—	RNAV1
007	TF	NORIK	—	360 (352.5)	-7.5	7.3	—	—	—	—	RNAV1
008	TF	T6R71	—	006 (358.9)	-7.5	6.5	—	—	—	—	RNAV1
009	TF	T6R72	—	342 (334.4)	-7.5	5.0	—	—	—	—	RNAV1
010	TF	NURSE	—	317 (309.8)	-7.5	6.5	—	9000	210	—	RNAV1
011	TF	NEURO	—	213 (205.5)	-7.5	13.5	—	6000	—	—	RNAV1
012	TF	NIGEL	—	252 (244.1)	-7.5	3.1	—	6000	—	—	RNAV1
013	TF	NATTY	—	252 (244.1)	-7.5	5.2	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	SNARE	354731.1N / 1395238.1E
NATTY	355350.9N / 1394531.3E	SNOKE	353551.6N / 1401411.7E
NEURO	355727.6N / 1395441.3E	SOPPY	354458.8N / 1400140.3E
NIGEL	355607.5N / 1395117.8E	SPINE	354213.5N / 1401125.8E
NORIK	355428.9N / 1401054.5E	STOWE	350325.9N / 1403111.4E
NUMAN	354714.4N / 1401204.9E	T6L60	354838.2N / 1394838.4E
NURSE	360939.3N / 1400153.3E	T6R70	353614.4N / 1401351.4E
SALLY	345333.9N / 1395540.1E	T6R71	360059.5N / 1401045.1E
SANDY	354917.5N / 1394402.8E	T6R72	360530.2N / 1400804.3E
SCOPE	352358.4N / 1400538.3E	TT253	350001.4N / 1400224.6E
SCOUT	350624.1N / 1395356.8E	TT254	345826.5N / 1401129.4E
SHAFT	352227.4N / 1401313.3E	TT255	345910.9N / 1402041.4E

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL  
AROSA R ARRIVAL

RNAV 1

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

VAR 8° W(2019)

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

NUMAN  
MHA 4000

081°  
096°  
108°

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

NEURO  
MHA 4000

110°  
290°

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

SNARE  
MHA 4000

717°  
297°

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

SPINE  
MHA 4000

89°  
84°  
83°

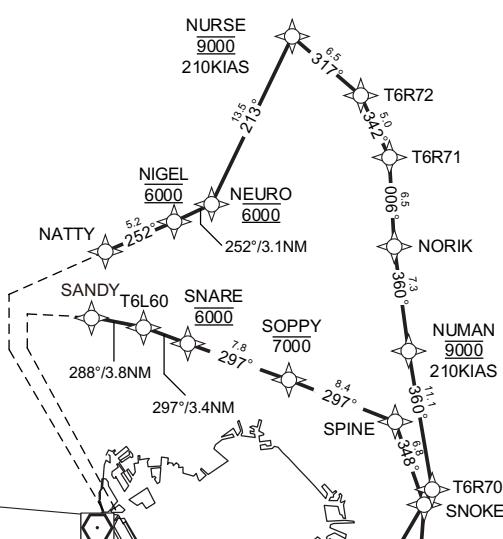
AROSA L ARRIVAL

SPINE  
SNOKE  
SHAFT  
9000  
13.4  
011°  
84°  
83°  
89°

AROSA R ARRIVAL

NUMAN  
9000  
210KIAS  
096°  
111°  
14°  
036°  
SCOPE  
10000

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



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

SHAFT  
MHA 4000

150°  
330°

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

AVEEY  
MHA 5000

134°  
314°

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to T6L60, to SANDY.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	337 (330.0)	-7.5	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	337 (329.9)	-7.5	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.5	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.5	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.5	25.6	-	9000	-	-	RNAV1
008	TF	SNOKE	-	011 (003.4)	-7.5	13.4	-	-	-	-	RNAV1
009	TF	SPINE	-	348 (340.6)	-7.5	6.8	-	-	-	-	RNAV1
010	TF	SOPPY	-	297 (289.2)	-7.5	8.4	-	-7000	-	-	RNAV1
011	TF	SNARE	-	297 (289.1)	-7.5	7.8	-	6000	-	-	RNAV1
012	TF	T6L60	-	297 (289.0)	-7.5	3.4	-	-	-	-	RNAV1
013	TF	SANDY	-	288 (280.0)	-7.5	3.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA R ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	337 (330.0)	-7.5	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	337 (329.9)	-7.5	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.5	8.1	-	-	-	-	RNAV1
006	TF	SCOUT	-	328 (320.5)	-7.5	10.1	-	-	-	-	RNAV1
007	TF	SCOPE	-	036 (028.5)	-7.5	20.0	-	10000	-	-	RNAV1
008	TF	T6R70	-	036 (028.6)	-7.5	14.0	-	-	-	-	RNAV1
009	TF	NUMAN	-	360 (352.5)	-7.5	11.1	-	9000	210	-	RNAV1
010	TF	NORIK	-	360 (352.5)	-7.5	7.3	-	-	-	-	RNAV1
011	TF	T6R71	-	006 (358.9)	-7.5	6.5	-	-	-	-	RNAV1
012	TF	T6R72	-	342 (334.4)	-7.5	5.0	-	-	-	-	RNAV1
013	TF	NURSE	-	317 (309.8)	-7.5	6.5	-	9000	210	-	RNAV1
014	TF	NEURO	-	213 (205.5)	-7.5	13.5	-	6000	-	-	RNAV1
015	TF	NIGEL	-	252 (244.1)	-7.5	3.1	-	6000	-	-	RNAV1
016	TF	NATTY	-	252 (244.1)	-7.5	5.2	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ALDEN	345141.1N / 1401505.3E	SHAFT	352227.4N / 1401313.3E
AROSA	344201.7N / 1404157.3E	SLICK	350412.7N / 1395120.0E
AVEEY	344155.9N / 1402158.0E	SNARE	354731.1N / 1395238.1E
NATTY	355350.9N / 1394531.3E	SNOKE	353551.6N / 1401411.7E
NEURO	355727.6N / 1395441.3E	SOPPY	354458.8N / 1400140.3E
NIGEL	355607.5N / 1395117.8E	SPINE	354213.5N / 1401125.8E
NORIK	355428.9N / 1401054.5E	T6L60	354838.2N / 1394838.4E
NUMAN	354714.4N / 1401204.9E	T6R70	353614.4N / 1401351.4E
NURSE	360939.3N / 1400153.3E	T6R71	360059.5N / 1401045.1E
SANDY	354917.5N / 1394402.8E	T6R72	360530.2N / 1400804.3E
SCOPE	352358.4N / 1400538.3E	TT256	345655.4N / 1401122.9E
SCOUT	350624.1N / 1395356.8E	TT257	345838.5N / 1400146.6E

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

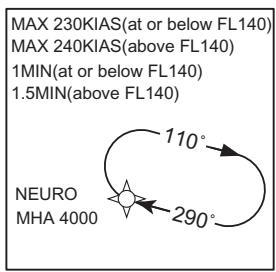
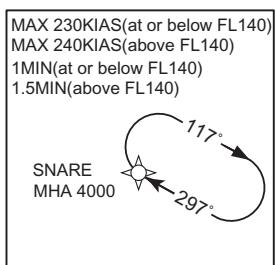
GODIN L ARRIVAL  
GODIN R ARRIVAL

RNAV STAR RWY16L/16R

RNAV 1

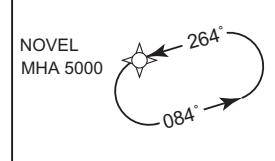
- Note 1) DME/DME/IRU or GNSS required.  
2) RADAR service required.

VAR 8° W(2019)



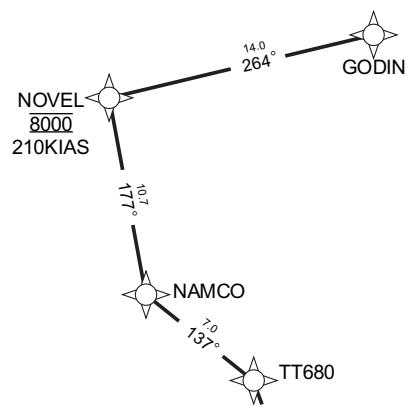
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NOVEL  
MHA 5000

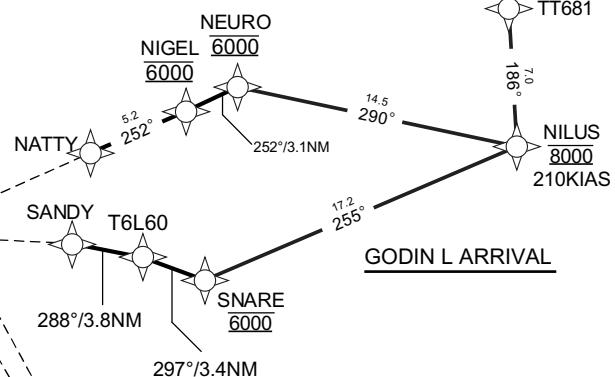


MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

GODIN  
MHA 8000



GODIN R ARRIVAL



GODIN L ARRIVAL

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

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN L ARRIVAL

From GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to SNARE at 6000FT, to T6L60, to SANDY.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	8000	210	–	RNAV1
003	TF	NAMCO	–	177 (169.8)	-7.5	10.7	–	–	–	–	RNAV1
004	TF	TT680	–	137 (129.7)	-7.5	7.0	–	–	–	–	RNAV1
005	TF	TT681	–	162 (154.3)	-7.5	5.4	–	–	–	–	RNAV1
006	TF	NILUS	–	186 (178.9)	-7.5	7.0	–	8000	210	–	RNAV1
007	TF	SNARE	–	255 (247.0)	-7.5	17.2	–	6000	–	–	RNAV1
008	TF	T6L60	–	297 (289.0)	-7.5	3.4	–	–	–	–	RNAV1
009	TF	SANDY	–	288 (280.0)	-7.5	3.8	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN R ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	8000	210	–	RNAV1
003	TF	NAMCO	–	177 (169.8)	-7.5	10.7	–	–	–	–	RNAV1
004	TF	TT680	–	137 (129.7)	-7.5	7.0	–	–	–	–	RNAV1
005	TF	TT681	–	162 (154.3)	-7.5	5.4	–	–	–	–	RNAV1
006	TF	NILUS	–	186 (178.9)	-7.5	7.0	–	8000	210	–	RNAV1
007	TF	NEURO	–	290 (282.9)	-7.5	14.5	–	6000	–	–	RNAV1
008	TF	NIGEL	–	252 (244.1)	-7.5	3.1	–	6000	–	–	RNAV1
009	TF	NATTY	–	252 (244.1)	-7.5	5.2	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
GODIN	362425.3N / 1401655.9E	NOVEL	362106.9N / 1400004.9E
NAMCO	361035.1N / 1400226.3E	SANDY	354917.5N / 1394402.8E
NATTY	355350.9N / 1394531.3E	SNARE	354731.1N / 1395238.1E
NEURO	355727.6N / 1395441.3E	T6L60	354838.2N / 1394838.4E
NIGEL	355607.5N / 1395117.8E	TT680	360608.2N / 1400904.0E
NILUS	355415.2N / 1401208.8E	TT681	360113.8N / 1401158.7E

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

POLIX L ARRIVAL  
POLIX R ARRIVAL

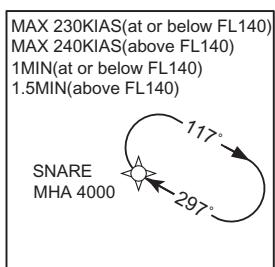
RNAV STAR RWY16L/16R

RNAV 1

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

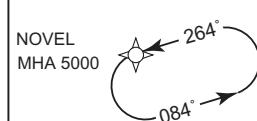
2) RADAR service required.

VAR 8° W(2019)



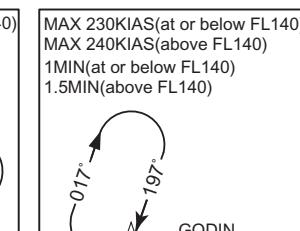
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NOVEL  
MHA 5000



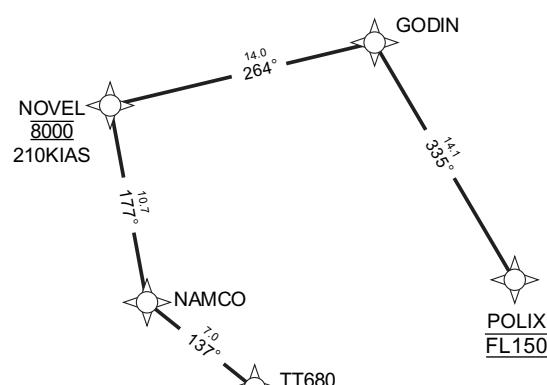
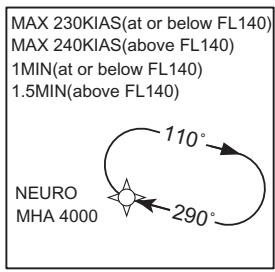
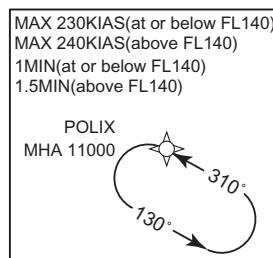
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

GODIN  
MHA 8000

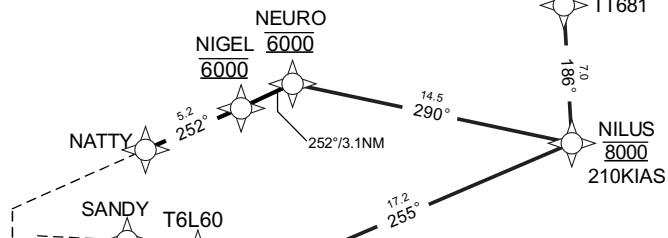


MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

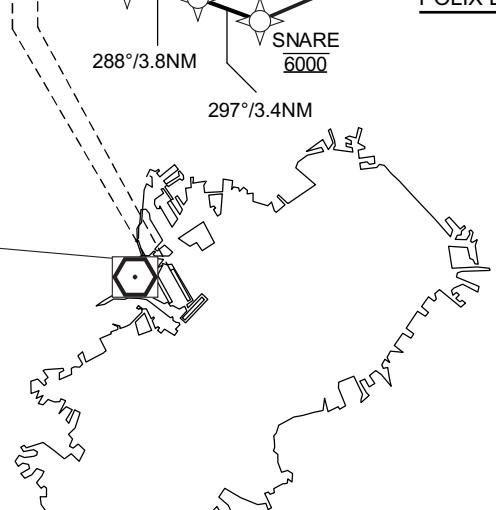
POLIX  
MHA 11000



POLIX R ARRIVAL



POLIX L ARRIVAL



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

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX L ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to SNARE at 6000FT, to T6L60, to SANDY.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	—	—	-7.5	—	—	FL150	—	—	RNAV1
002	TF	GODIN	—	335 (327.2)	-7.5	14.1	—	—	—	—	RNAV1
003	TF	NOVEL	—	264 (256.4)	-7.5	14.0	—	8000	210	—	RNAV1
004	TF	NAMCO	—	177 (169.8)	-7.5	10.7	—	—	—	—	RNAV1
005	TF	TT680	—	137 (129.7)	-7.5	7.0	—	—	—	—	RNAV1
006	TF	TT681	—	162 (154.3)	-7.5	5.4	—	—	—	—	RNAV1
007	TF	NILUS	—	186 (178.9)	-7.5	7.0	—	8000	210	—	RNAV1
008	TF	SNARE	—	255 (247.0)	-7.5	17.2	—	6000	—	—	RNAV1
009	TF	T6L60	—	297 (289.0)	-7.5	3.4	—	—	—	—	RNAV1
010	TF	SANDY	—	288 (280.0)	-7.5	3.8	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX R ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	—	—	-7.5	—	—	FL150	—	—	RNAV1
002	TF	GODIN	—	335 (327.2)	-7.5	14.1	—	—	—	—	RNAV1
003	TF	NOVEL	—	264 (256.4)	-7.5	14.0	—	8000	210	—	RNAV1
004	TF	NAMCO	—	177 (169.8)	-7.5	10.7	—	—	—	—	RNAV1
005	TF	TT680	—	137 (129.7)	-7.5	7.0	—	—	—	—	RNAV1
006	TF	TT681	—	162 (154.3)	-7.5	5.4	—	—	—	—	RNAV1
007	TF	NILUS	—	186 (178.9)	-7.5	7.0	—	8000	210	—	RNAV1
008	TF	NEURO	—	290 (282.9)	-7.5	14.5	—	6000	—	—	RNAV1
009	TF	NIGEL	—	252 (244.1)	-7.5	3.1	—	6000	—	—	RNAV1
010	TF	NATTY	—	252 (244.1)	-7.5	5.2	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
GODIN	362425.3N / 1401655.9E	POLIX	361237.1N / 1402622.5E
NAMCO	361035.1N / 1400226.3E	SANDY	354917.5N / 1394402.8E
NATTY	355350.9N / 1394531.3E	SNARE	354731.1N / 1395238.1E
NEURO	355727.6N / 1395441.3E	T6L60	354838.2N / 1394838.4E
NIGEL	355607.5N / 1395117.8E	TT680	360608.2N / 1400904.0E
NILUS	355415.2N / 1401208.8E	TT681	360113.8N / 1401158.7E
NOVEL	362106.9N / 1400004.9E		

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

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

RNAV 1

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

VAR 8° W(2019)

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

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

KAIHO  
MHA 4000

353°  
353°

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

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

OSHIMA NIGHT ARRIVAL

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

OSHIMA  
(XAC)

UMUKI  
6000

MESSE NIGHT ARRIVAL

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

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

UTIBO

AROSA NIGHT ARRIVAL

16.4 277°  
AVEEY AROSA

AKSEL

AKSEL NIGHT ARRIVAL

AKSEL  
MHA 5000  
039°  
219°

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

098°  
278°  
OSHIMA(XAC)  
MHA 5000

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

AKSEL  
MHA 5000

039°  
219°

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

AVEEY  
MHA 5000  
734°  
374°

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

OSHIMA NIGHT ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	067 (059.2)	-7.5	27.6	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AKSEL NIGHT ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	014 (006.6)	-7.5	16.2	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA NIGHT ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	-	-	-	RNAV1
003	TF	UTIBO	-	310 (302.8)	-7.5	27.5	-	-	-	-	RNAV1
004	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
005	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

MESSE NIGHT ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MESSE	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	246 (238.8)	-7.5	27.4	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MESSE	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

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

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

**OSHIMA V ARRIVAL / AKSEL V ARRIVAL  
AROSA V ARRIVAL / MESSE V ARRIVAL**

RNAV 1

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

2 ) RADAR service required.

VAR 8° W(2019)



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

OSHIMA V ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	067 (059.2)	-7.5	27.6	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	046 (038.9)	-7.5	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	052 (044.9)	-7.5	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	307 (299.7)	-7.5	2.8	-	+1800	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AKSEL V ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course 'M('T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	014 (006.6)	-7.5	16.2	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	046 (038.9)	-7.5	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	052 (044.9)	-7.5	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	307 (299.7)	-7.5	2.8	-	+1800	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course 'M('T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA V ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	-	-	-	RNAV1
003	TF	UTIBO	-	310 (302.8)	-7.5	27.5	-	-	-	-	RNAV1
004	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
005	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	+4000	-	-	RNAV1
006	TF	LD225	-	046 (038.9)	-7.5	9.3	-	-	-220	-	RNAV1
007	TF	LD224	-	052 (044.9)	-7.5	9.4	-	-	-	-	RNAV1
008	TF	DARKS	-	307 (299.7)	-7.5	2.8	-	+1800	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

MESSE V ARRIVAL

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

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MESSE	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	246 (238.8)	-7.5	27.4	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	046 (038.9)	-7.5	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	052 (044.9)	-7.5	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	307 (299.7)	-7.5	2.8	-	+1800	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MESSE	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

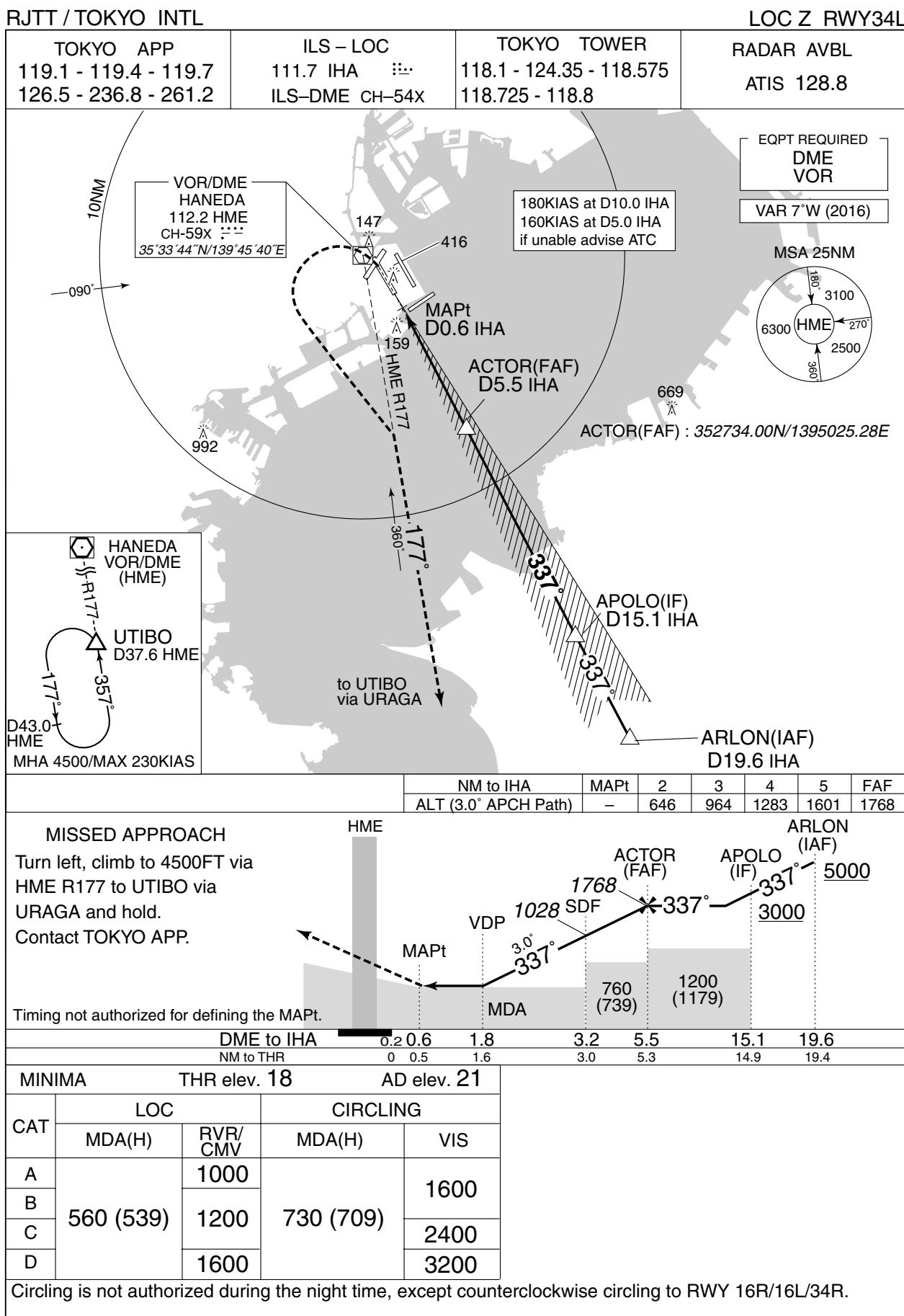
Waypoint Coordinates

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

INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LOC Y RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

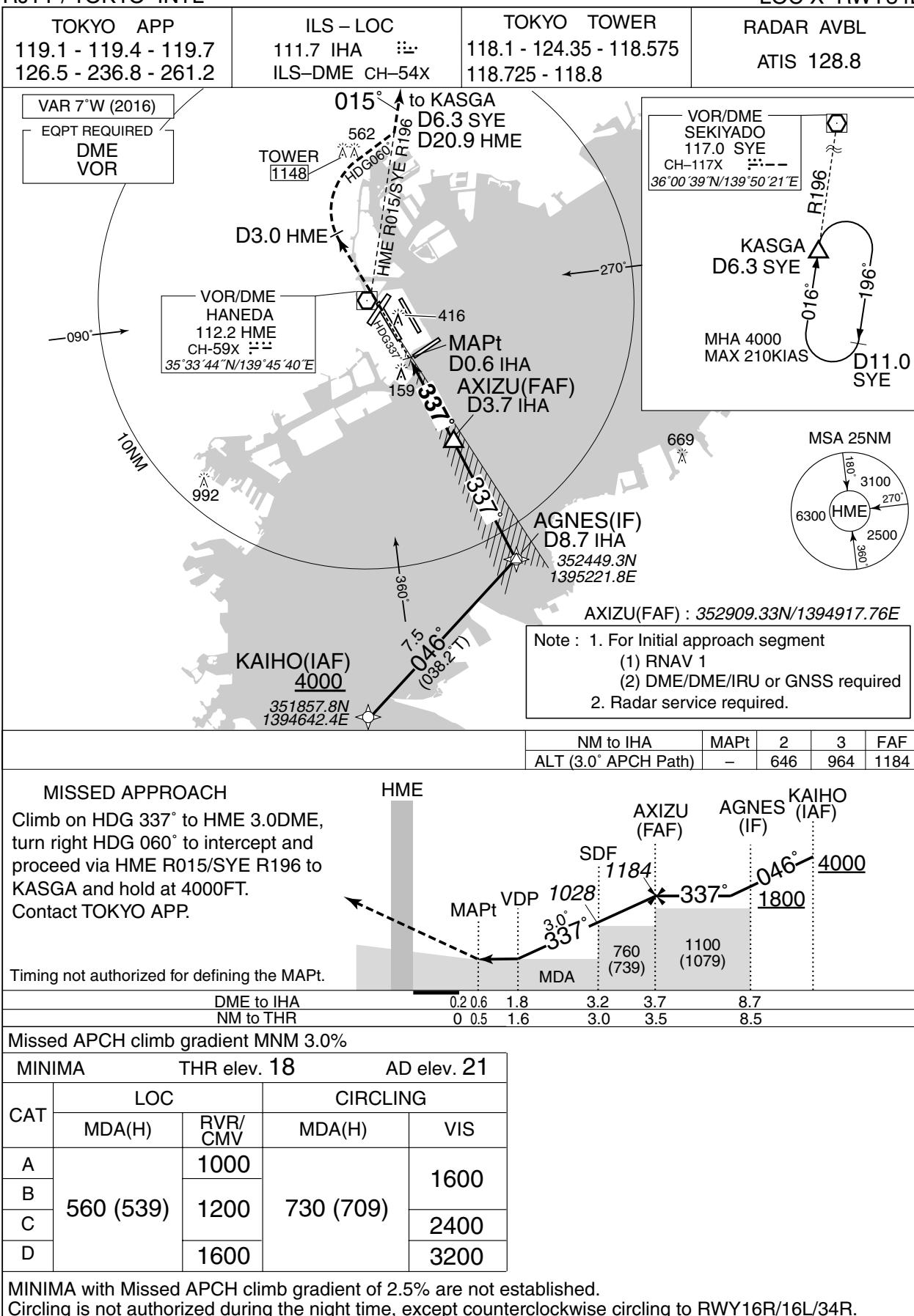
ILS X RWY34L



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LOC X RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

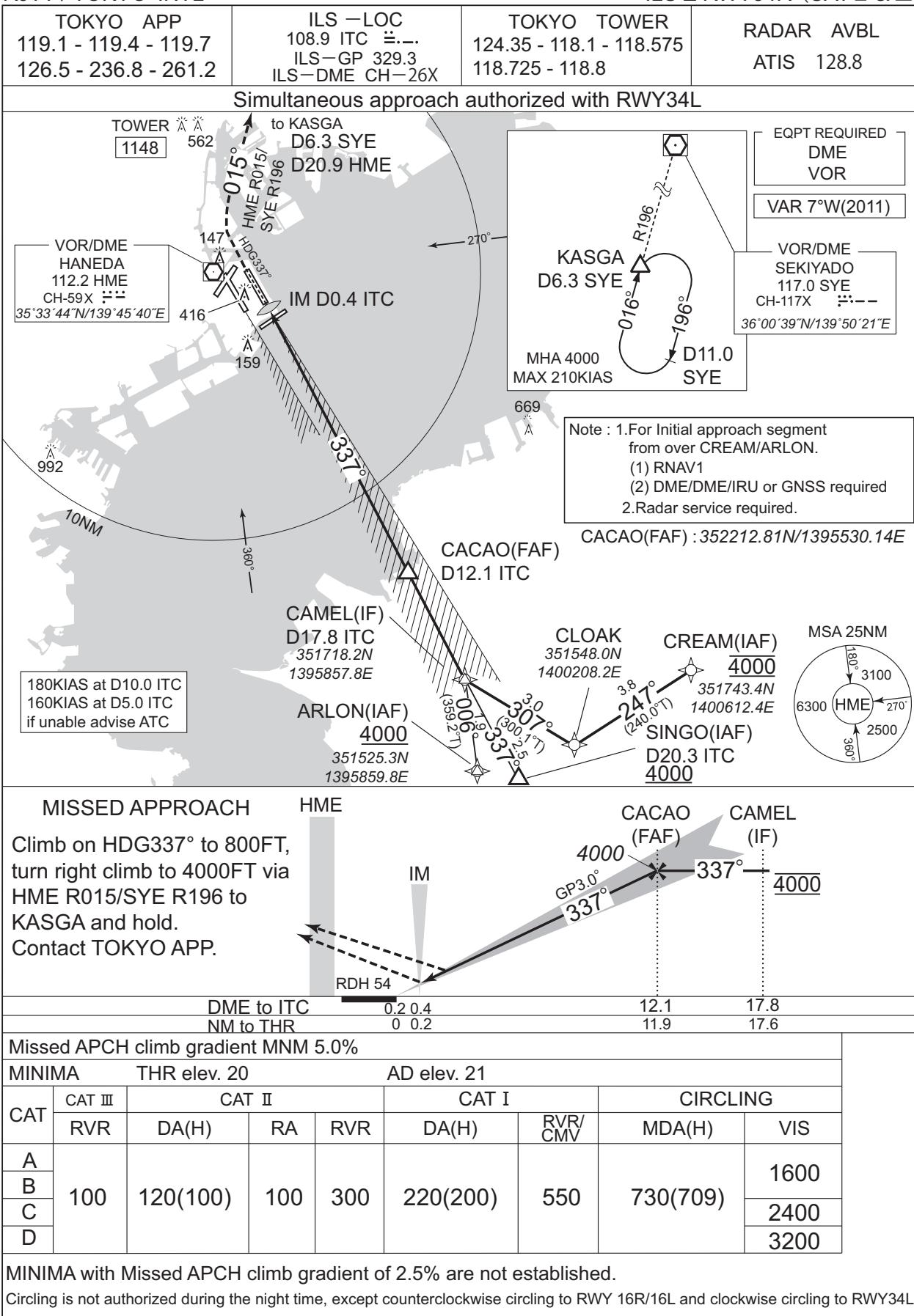
VOR RWY34L



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS Z RWY34R (CAT II &amp; III)



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

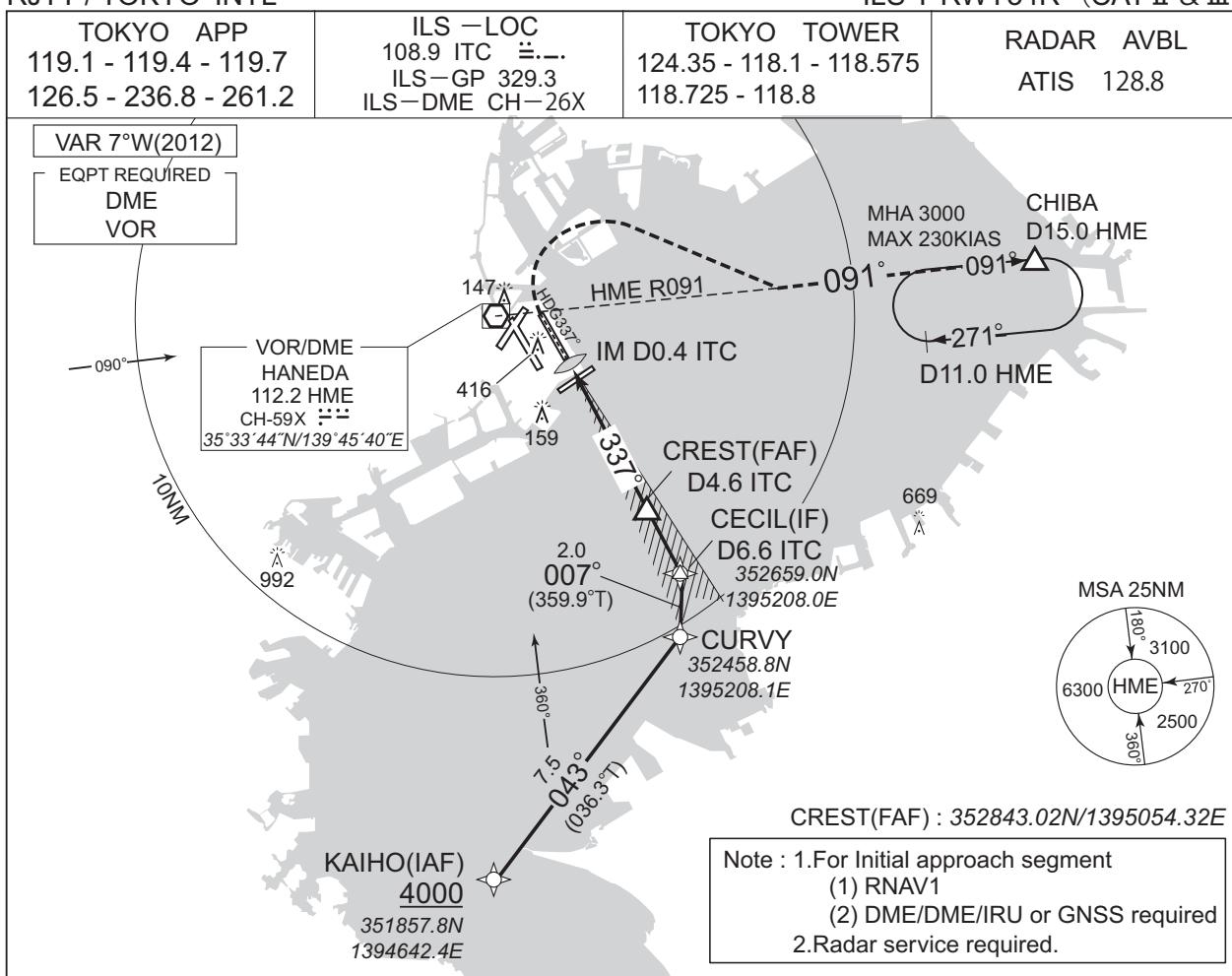
LOC Z RWY34R



## INSTRUMENT APPROACH CHART

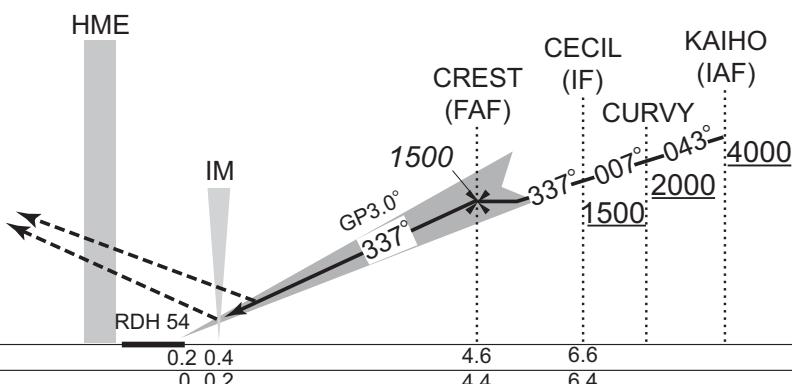
RJTT / TOKYO INTL

ILS Y RWY34R (CAT II &amp; III)



## MISSED APPROACH

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

DME to ITC  
NM to THR0.2 0.4  
0 0.2

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 20

AD elev. 21

CHANGE: MINIMA(CAT IIIA, IIIB → CAT III).

## INSTRUMENT APPROACH CHART

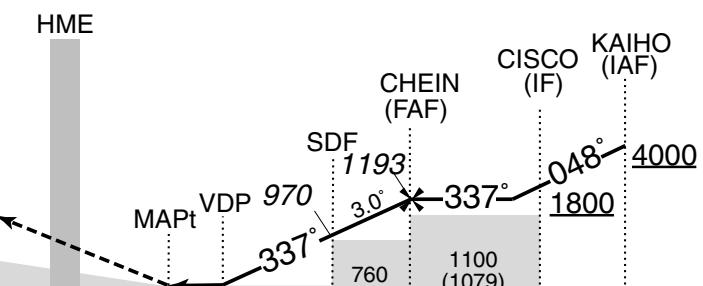
RJTT / TOKYO INTL

LOC Y RWY34R



**MISSSED APPROACH**  
Turn right, climb to 3000FT via HME R091 to CHIBA and hold.  
Contact TOKYO APP.

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



DME to ITC	0.2	0.6	2.1	3.0	3.7	8.7
NM to THR	0	0.5	1.9	2.8	3.5	8.5

MINIMA		THR elev. 20	AD elev. 21	
CAT	LOC	CIRCLING		
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A		1200		
B	700 (679)	1400	730 (709)	1600
C				2400
D		1800		3200

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

## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

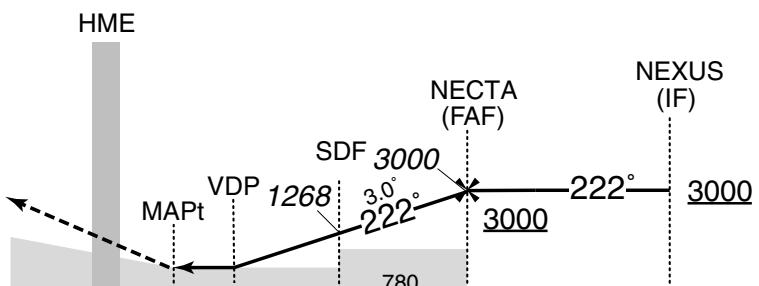
LOC RWY22



MISSED APPROACH

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

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



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

Missed APCH climb gradient MNM 4.0%

MINIMA      THR elev. 35      AD elev. 21

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

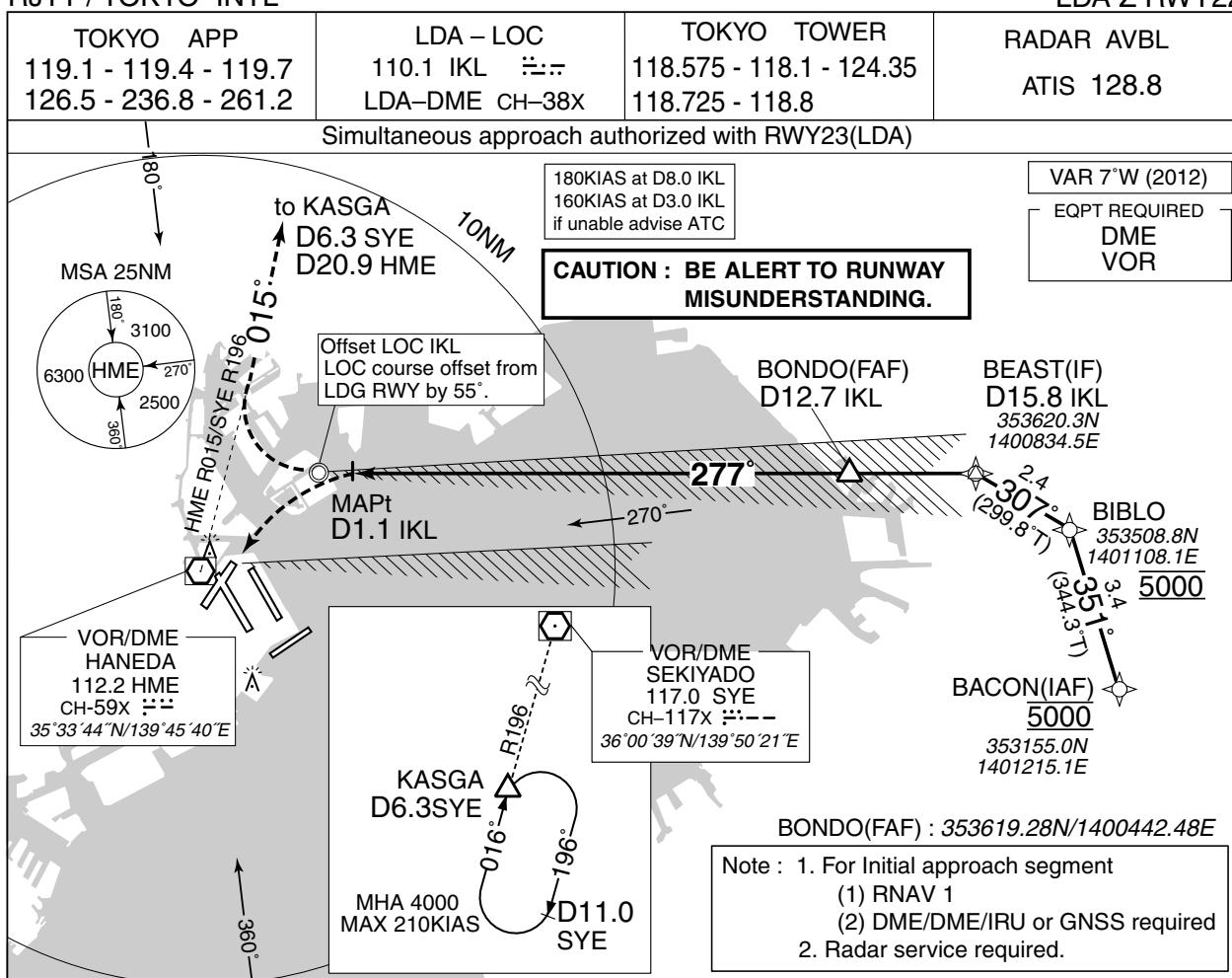
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Z RWY22



## MISSSED APPROACH

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

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 4.0%

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

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

**SO AS NOT TO MISUNDERSTAND  
THE RUNWAY**

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

INSTRUMENT APPROACH CHART

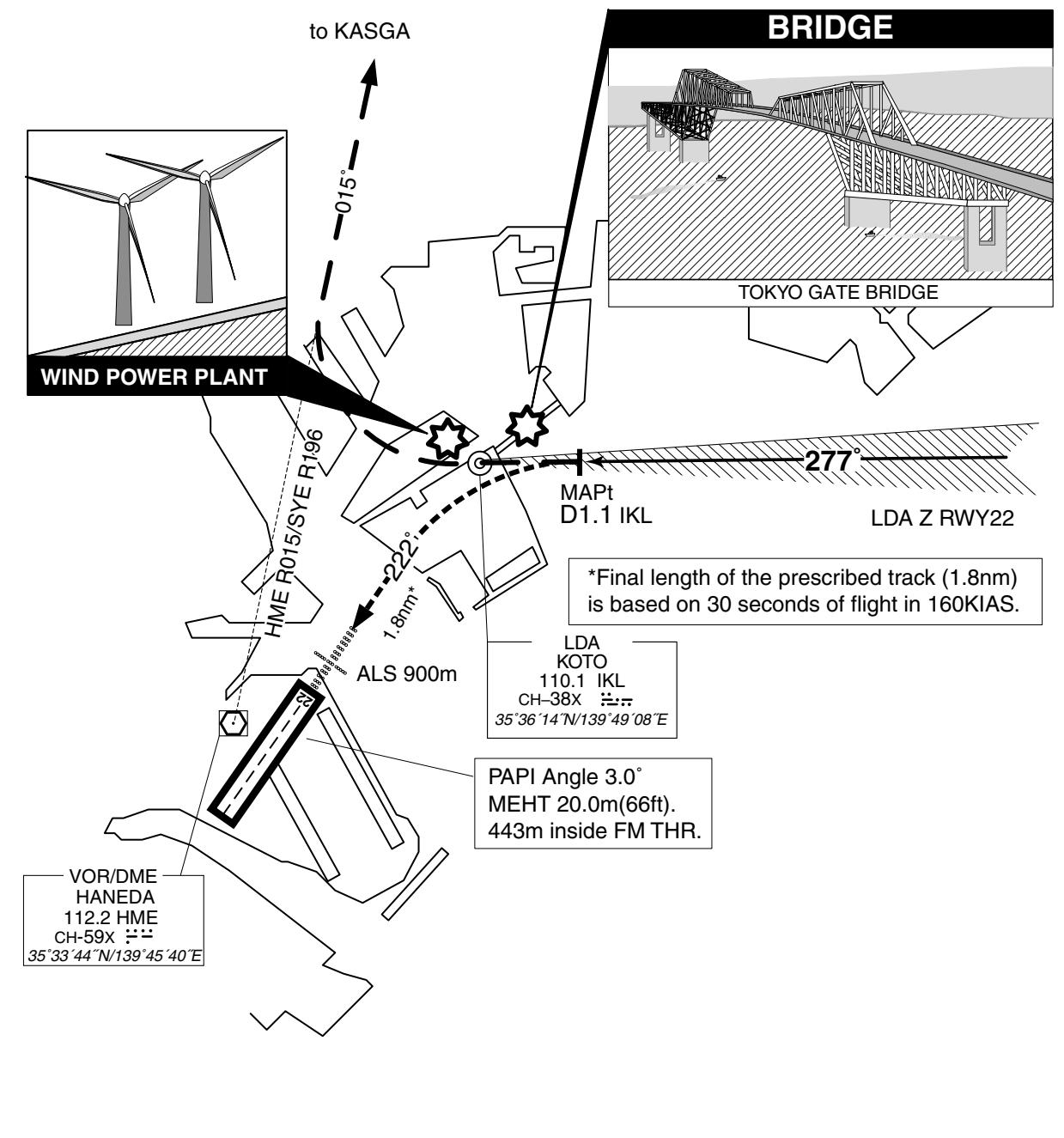
RJTT / TOKYO INTL

LDA Z RWY22

Visual Prescribed Track for LDA Z RWY22

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

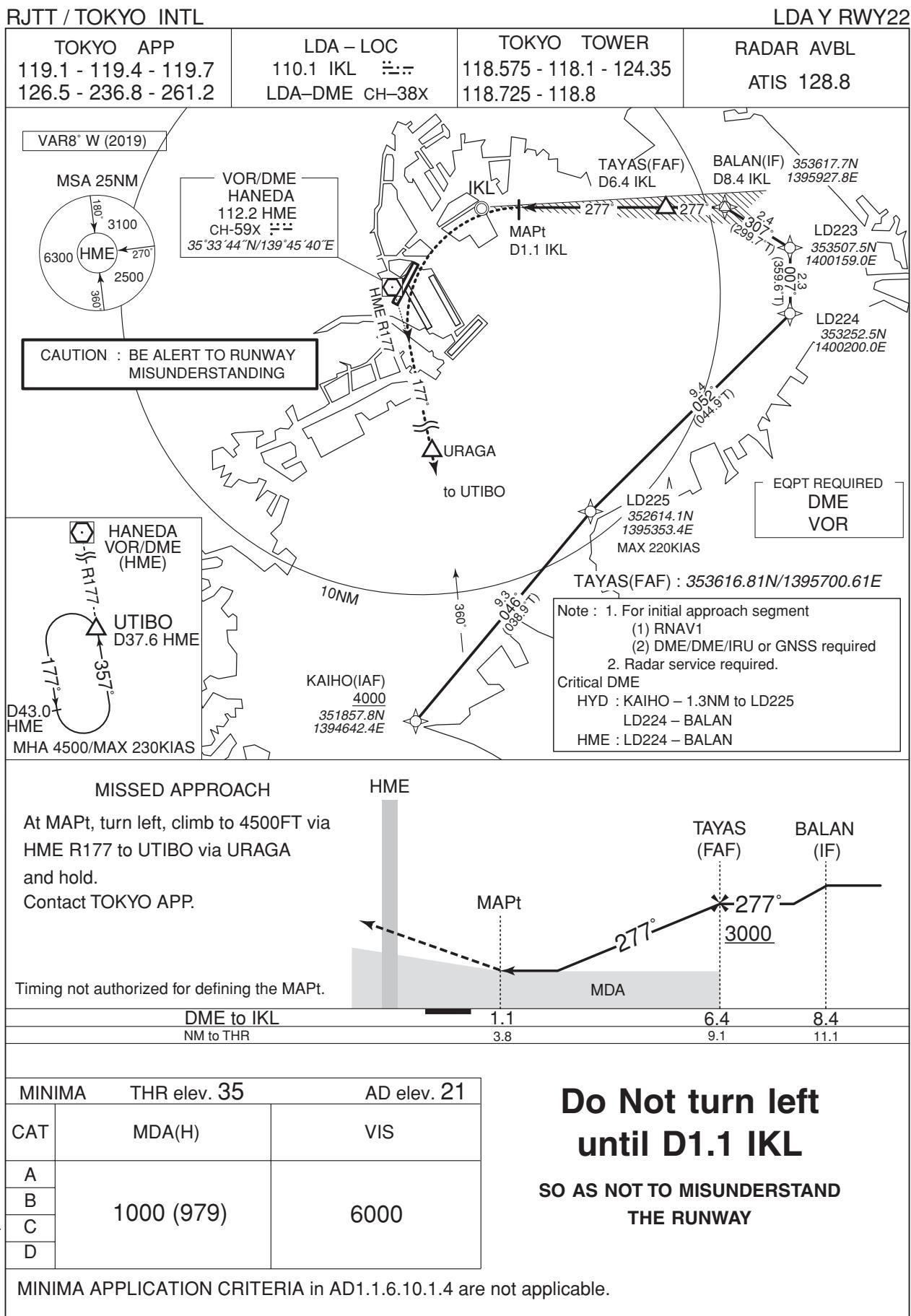
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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

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

## INSTRUMENT APPROACH CHART



CHANGE : Update

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY22

Visual Prescribed Track for LDA Y RWY22

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

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



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

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

## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA X RWY22

Visual Prescribed Track for LDA X RWY22

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

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



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY22



INSTRUMENT APPROACH CHART

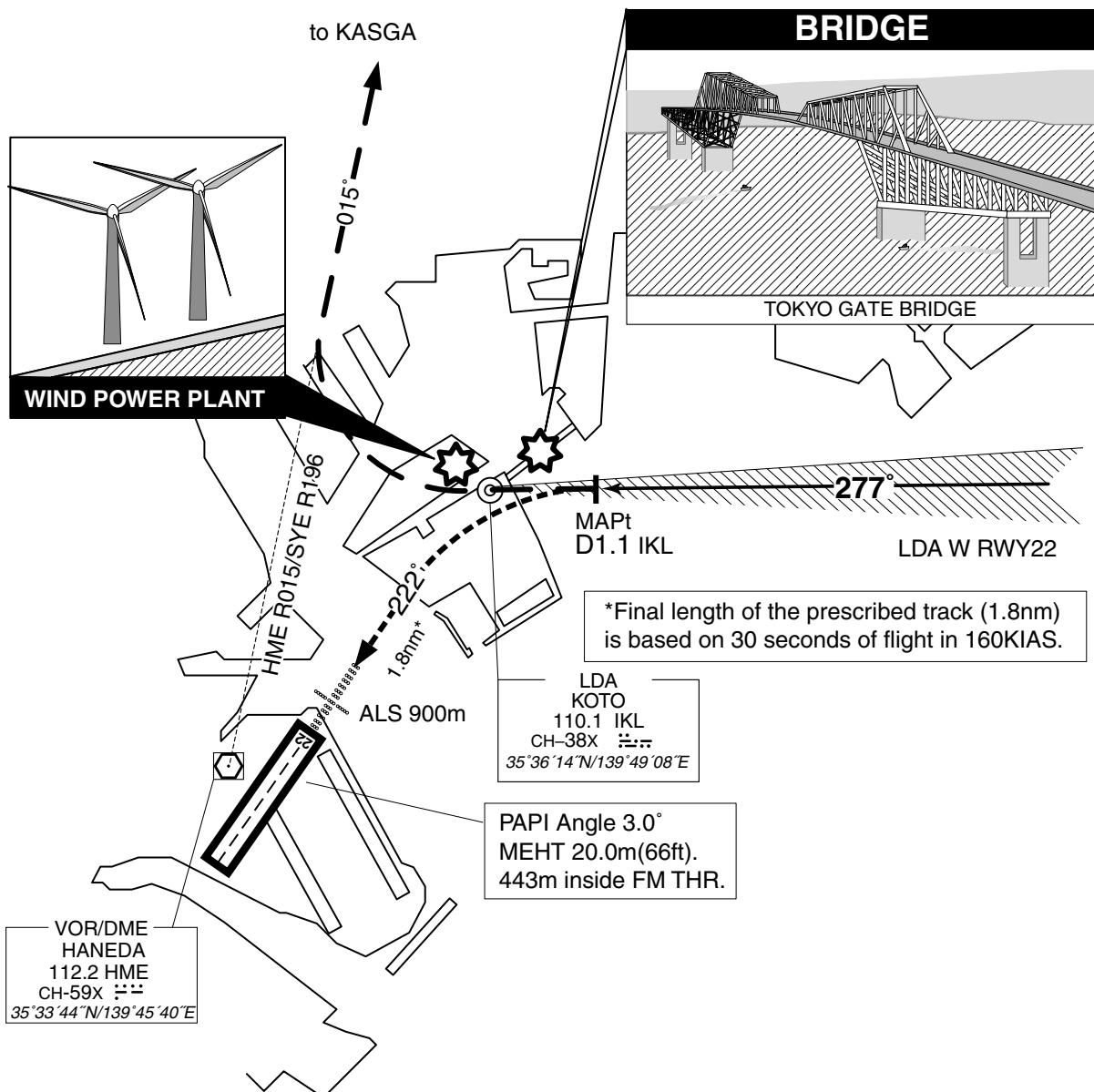
RJTT / TOKYO INTL

LDA W RWY22

Visual Prescribed Track for LDA W RWY22

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

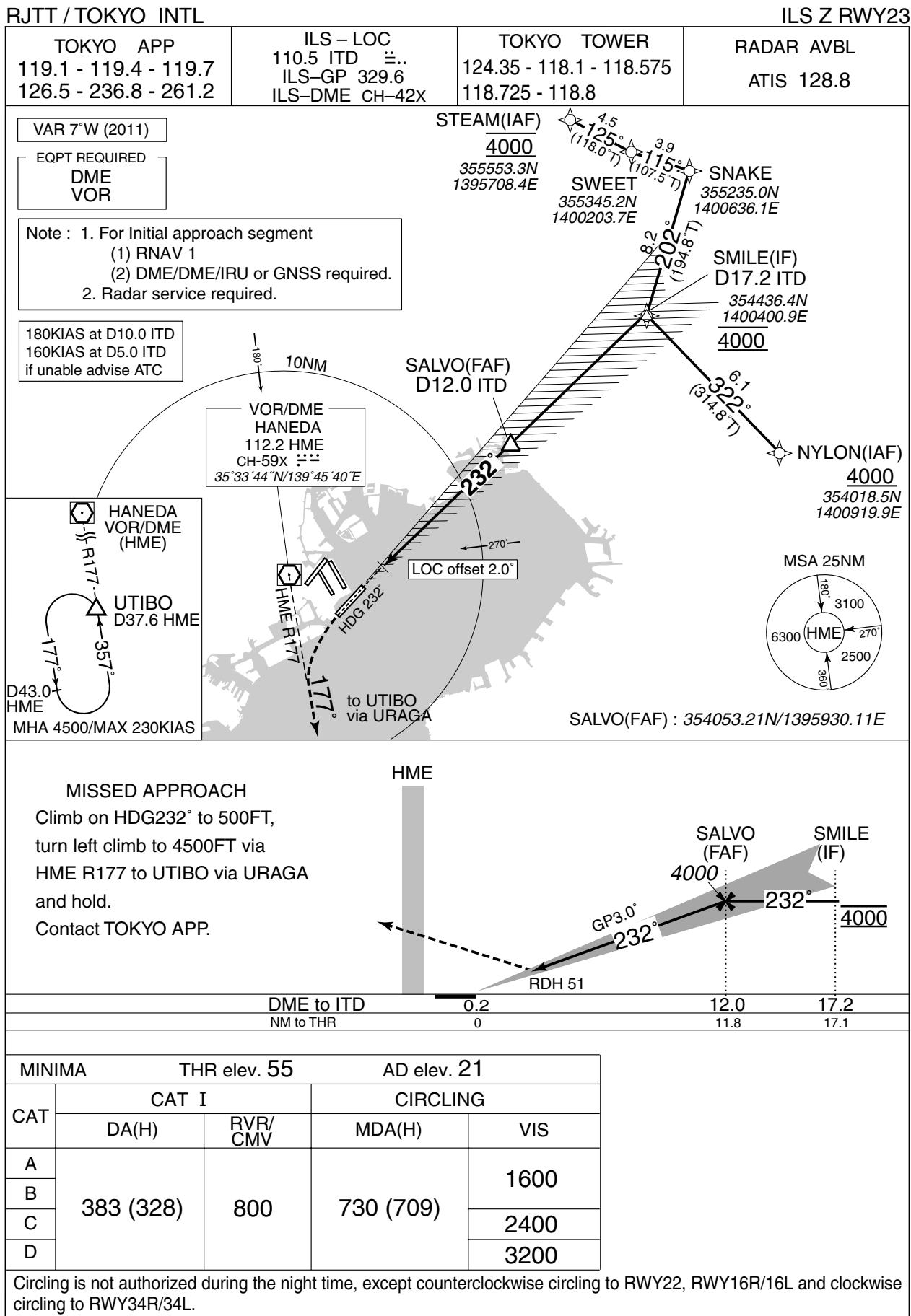
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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

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

## INSTRUMENT APPROACH CHART



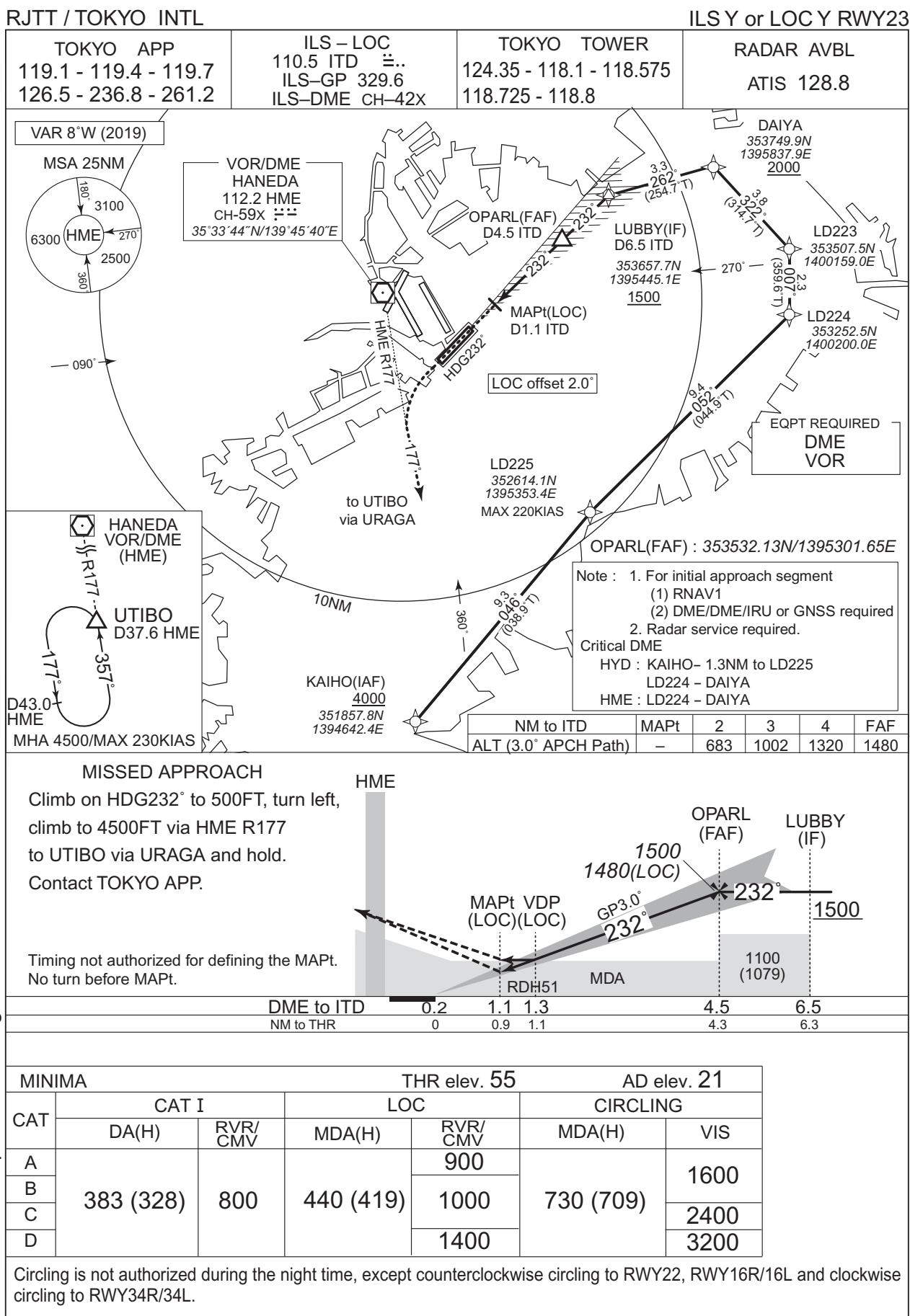
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LOC Z RWY23



## INSTRUMENT APPROACH CHART



CHANGE: Description of GP angle.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

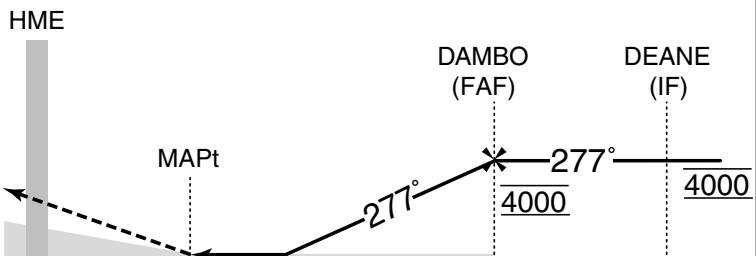
LDA Z RWY23



MISSED APPROACH

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

Timing not authorized for defining the MAPt.



MINIMA		THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS	
A			
B			
C	1000 (979)	6000	
D			

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

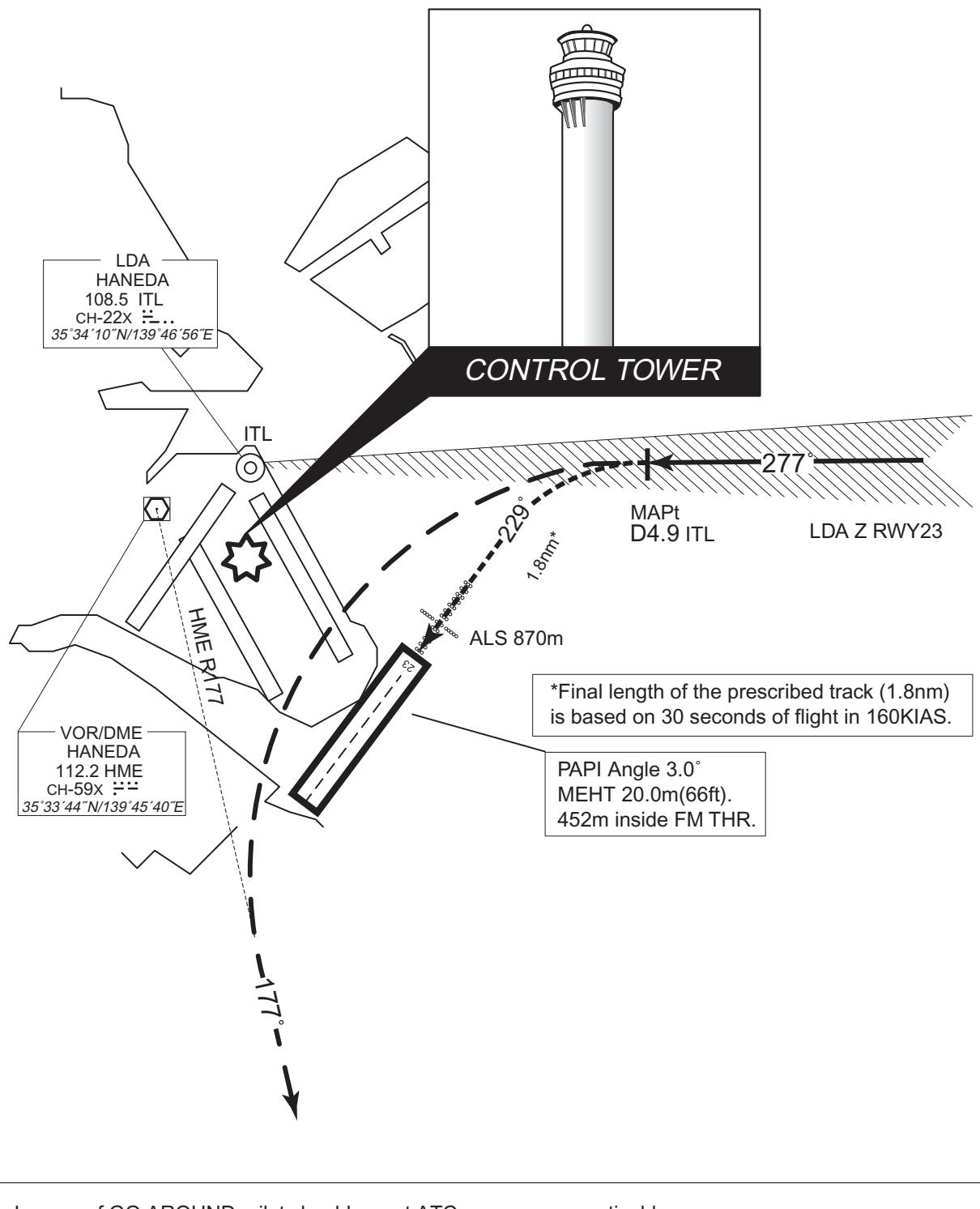
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Z RWY23

## Visual Prescribed Track for LDA Z RWY23

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



CHANGE : Correction of misdescription (ITL COORD).

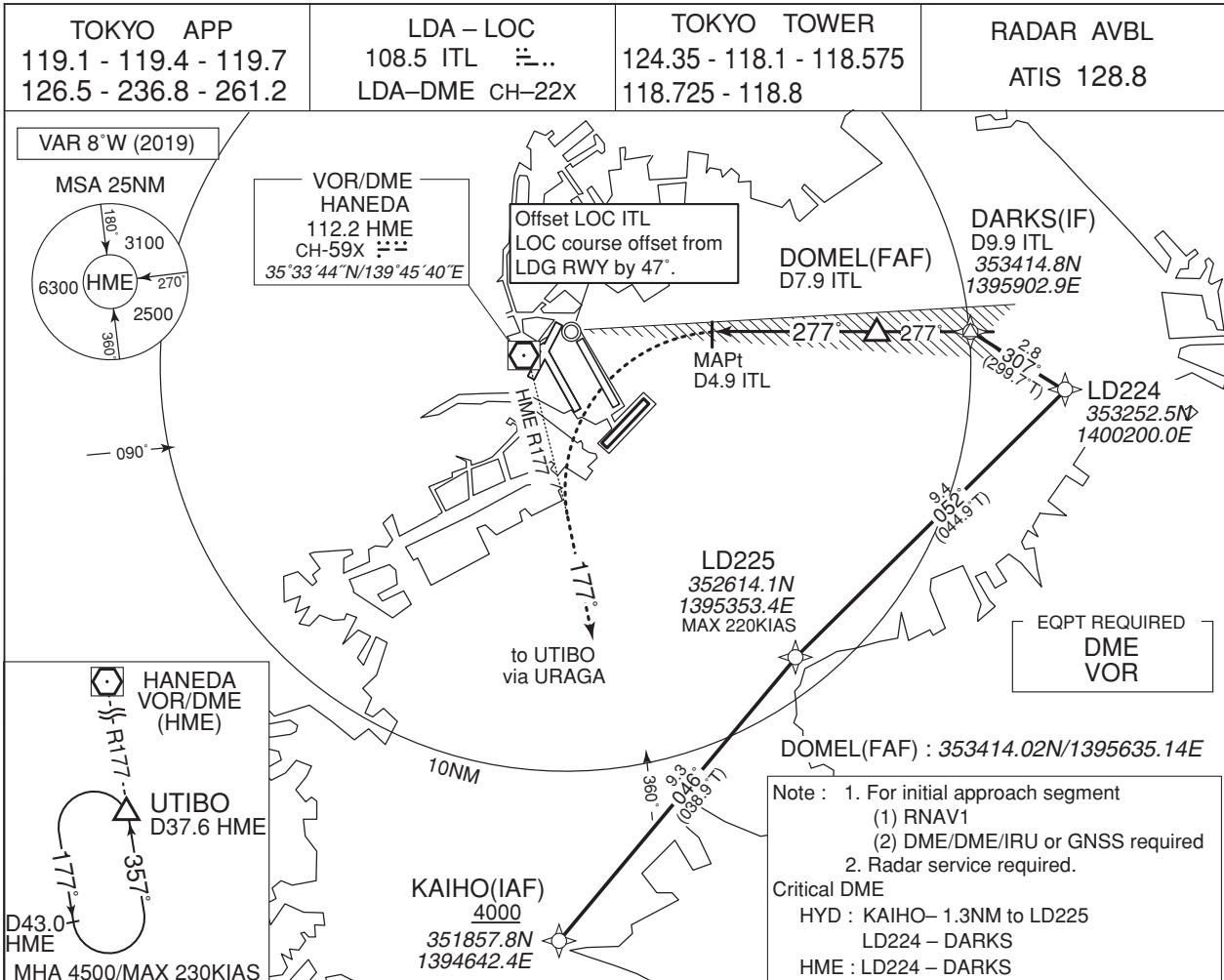
In case of GO AROUND, pilot should report ATC as soon as practicable.

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23



MISSED APPROACH

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

HME

DOME(L)(FAF)  
DARKS  
(IF)

Timing not authorized for defining the MAPt.

MAPt

MDA

4.9

3.4

7.9

6.4

9.9

8.4

277°

1800

MINIMA		THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS	
A			
B			
C			
D	1000 (979)	6000	

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

CHANGE : Update

## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23

## Visual Prescribed Track for LDA Y RWY23

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



CHANGE : Correction of misdescription (ITL COORD).

In case of GO AROUND, pilot should report ATC as soon as practicable.  
Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

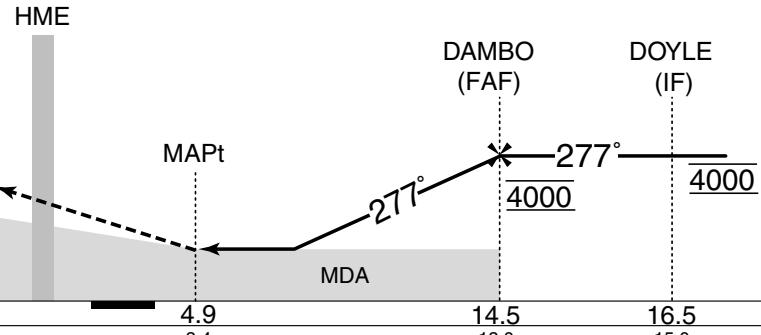
LDA X RWY23



MISSED APPROACH

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

Timing not authorized for defining the MAPt.



	MINIMA	THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS	
A			
B	1000 (979)	6000	
C			
D			

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

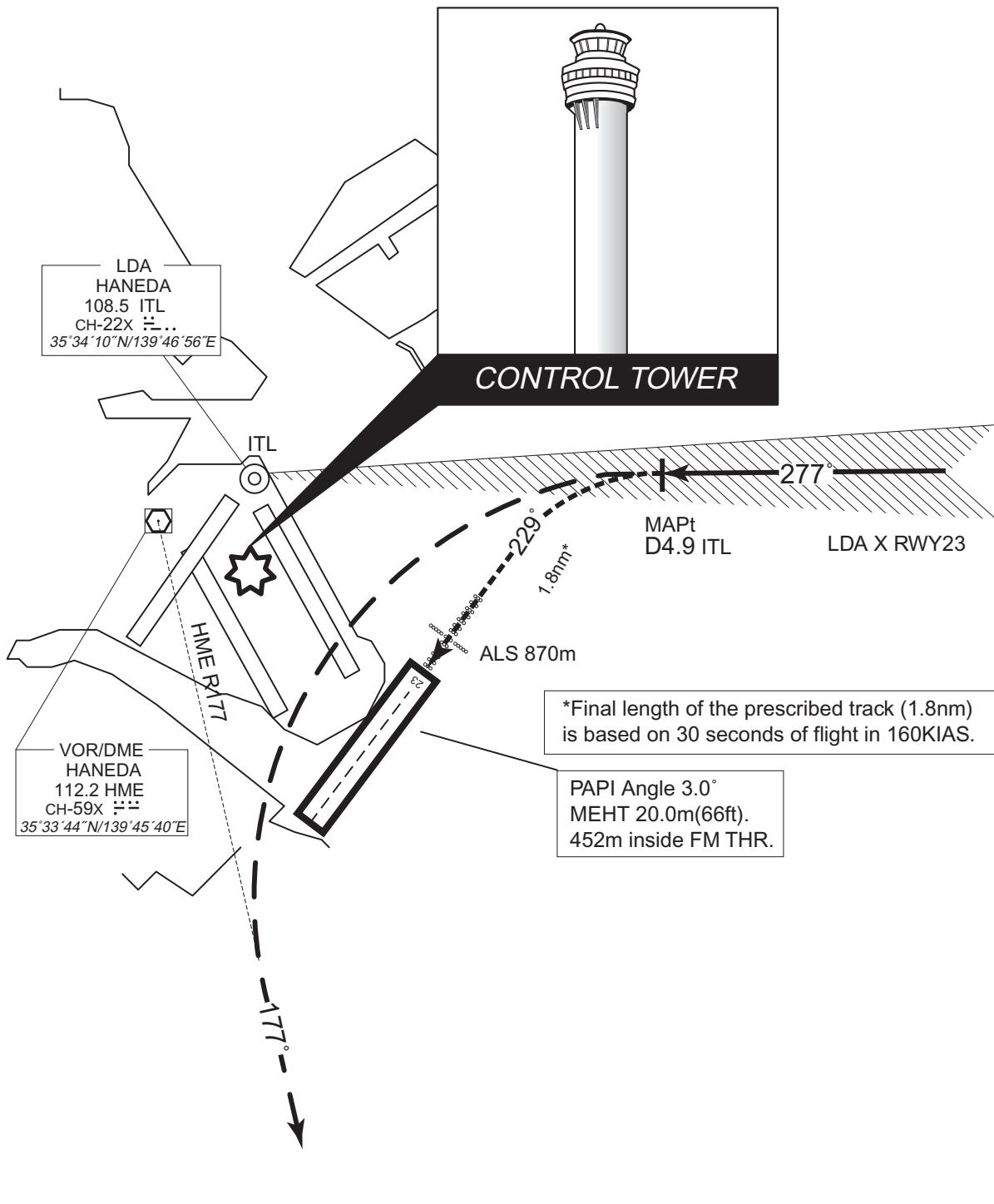
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA X RWY23

## Visual Prescribed Track for LDA X RWY23

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



CHANGE : Correction of misdescription (ITL COORD).

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

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23



MINIMA	THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS
A		
B	1000 (979)	6000
C		
D		

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

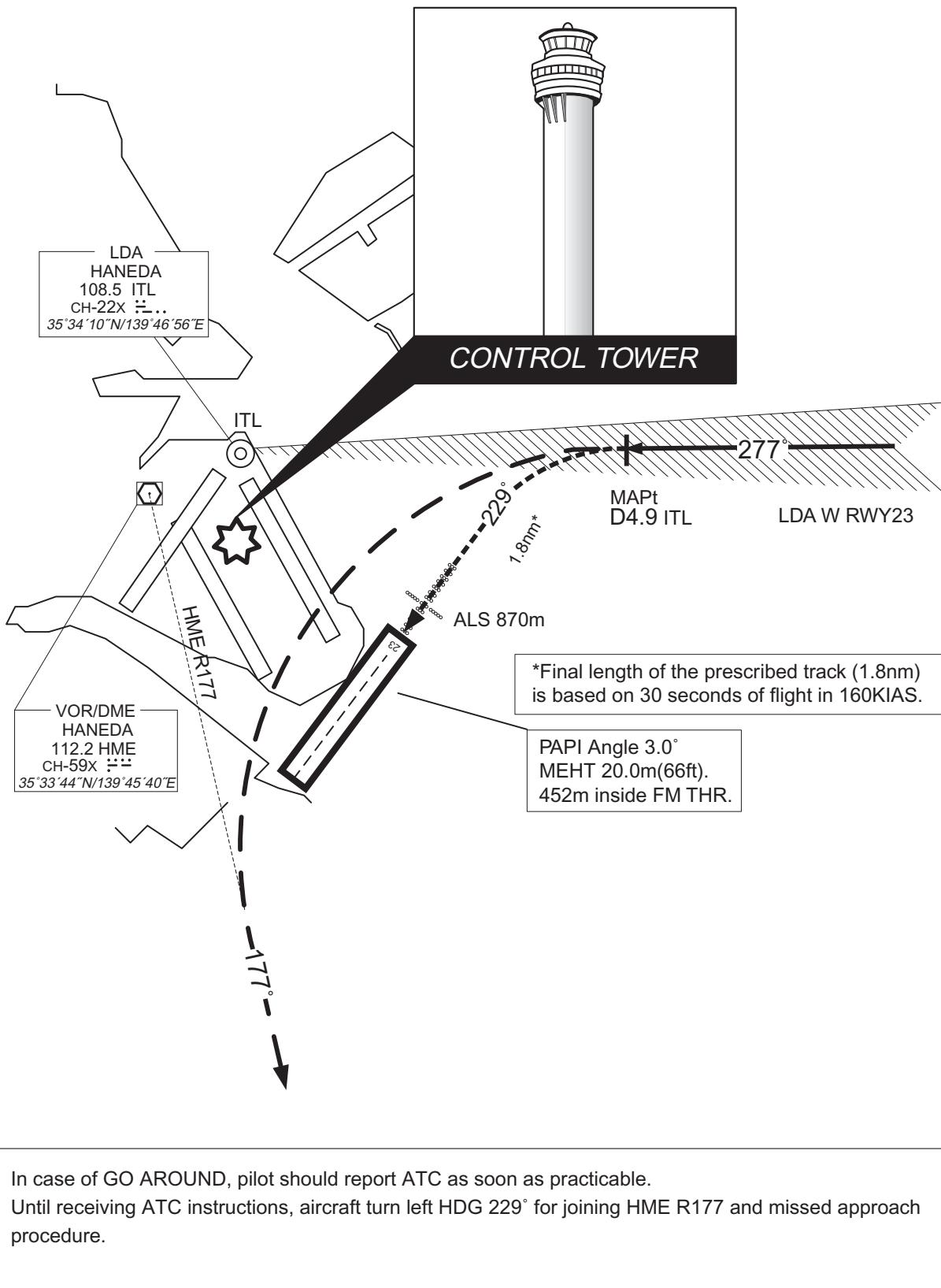
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23

## Visual Prescribed Track for LDA W RWY23

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

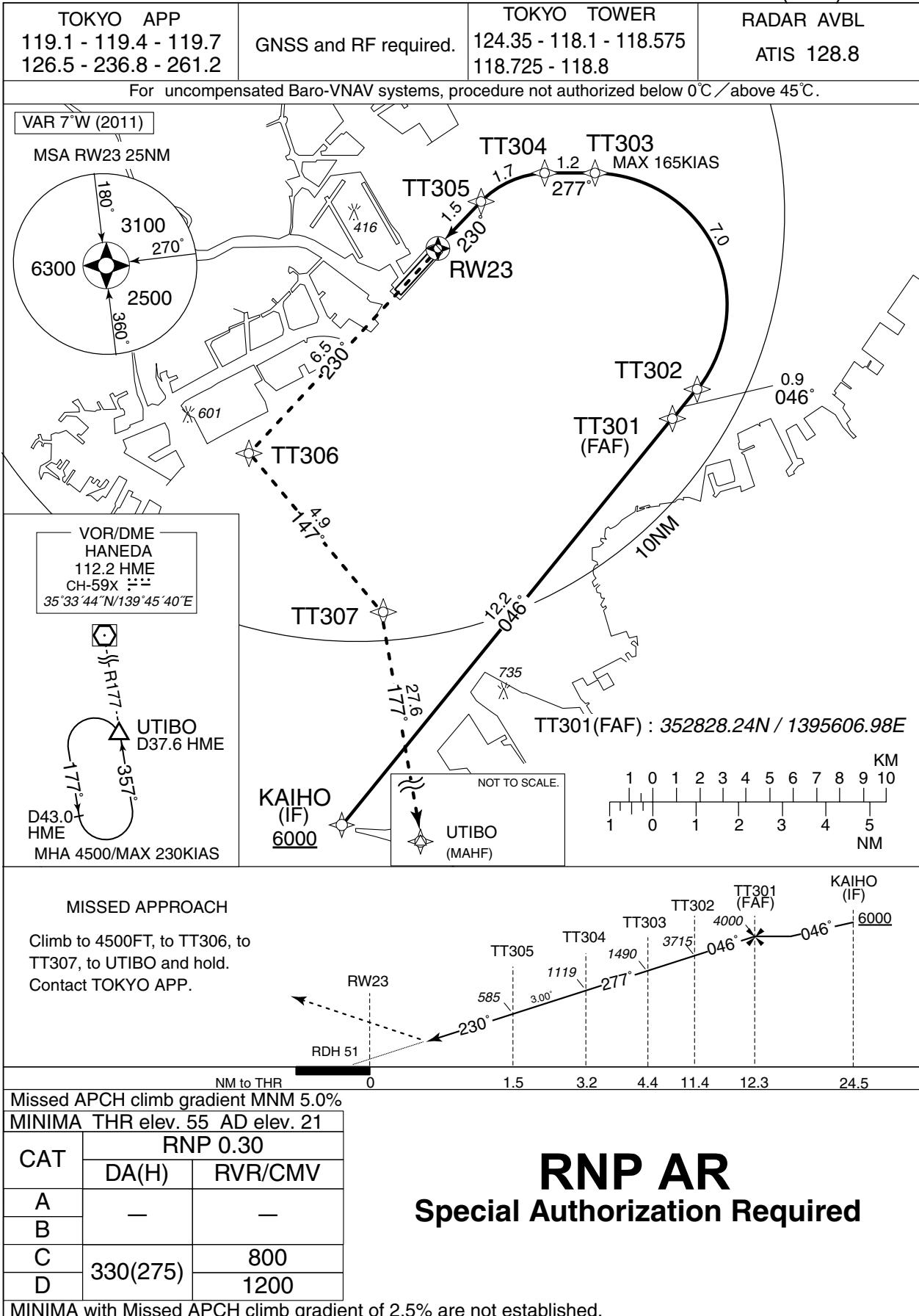


CHANGE: Correction of misdescription (ITL COORD).

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNAV (RNP) RWY23



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNAV (RNP) RWY23

RNAV (RNP) RWY23Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/RDH (°/FT)	RNP Value
001	IF	KAIHO	—	—	-7.2	—	—	+6000	—	—	—
002	TF	TT301	—	046 (038.8)	-7.2	12.2	—	4000	—	—	1.0
003	TF	TT302	—	046 (038.8)	-7.2	0.9	—	3715	—	-3.00	0.3
004	RF Center: TTRF1 r=3.10NM	TT303	—	—	-7.2	7.0	L	1490	-165	-3.00	0.3
005	TF	TT304	—	277 (269.6)	-7.2	1.2	—	1119	—	-3.00	0.3
006	RF Center: TTRF2 r=2.00NM	TT305	—	—	-7.2	1.7	L	585	—	-3.00	0.3
007	TF	RW23	Y	230 (222.5)	-7.2	1.5	—	106	—	-3.00/51	0.3
008	TF	TT306	—	230 (222.5)	-7.2	6.5	—	—	—	—	1.0
009	TF	TT307	—	147 (139.9)	-7.2	4.9	—	—	—	—	1.0
010	TF	UTIBO	—	177 (169.9)	-7.2	27.6	—	4500	—	—	1.0

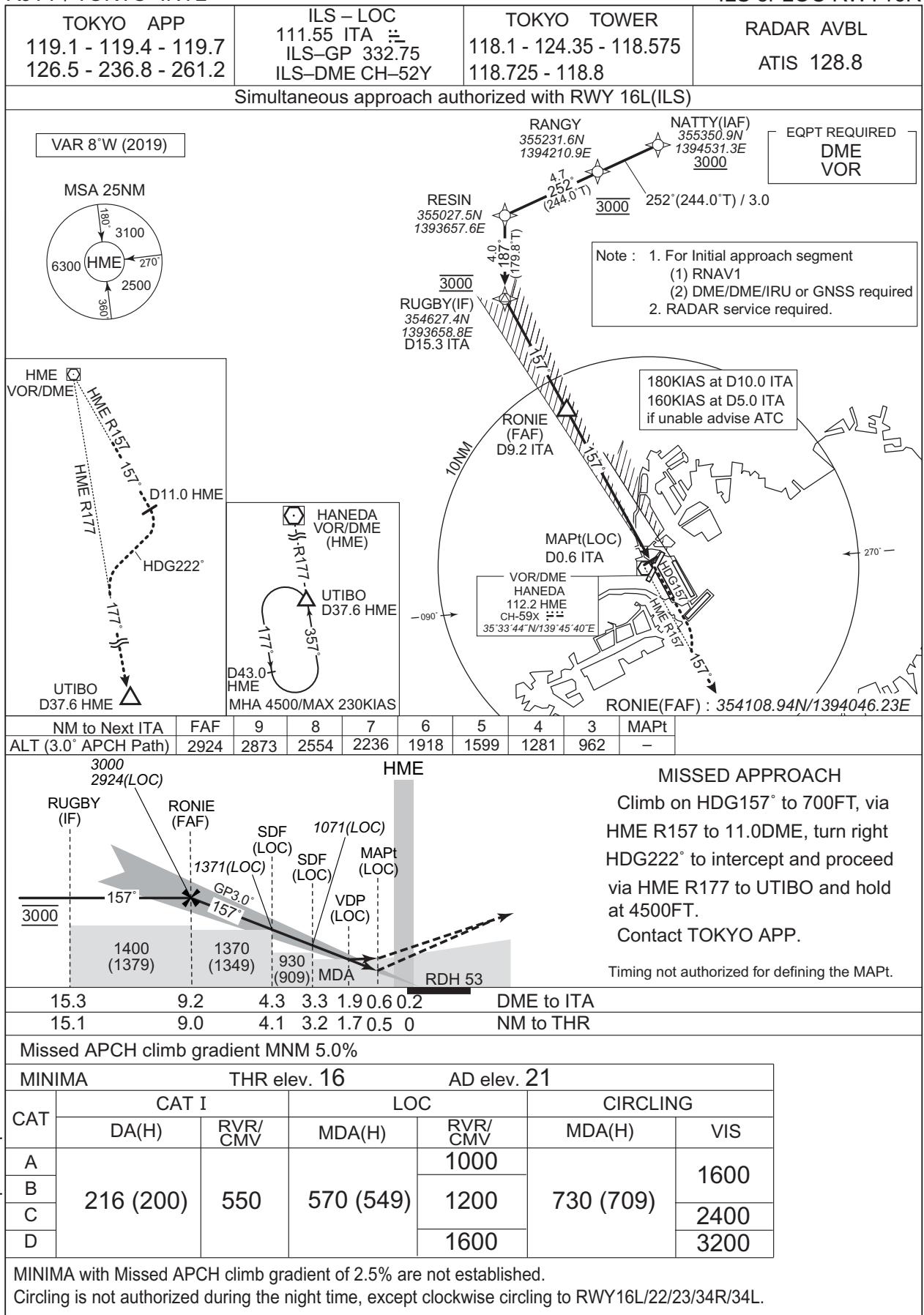
Waypoint Coordinates

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS or LOC RWY16R



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNAV (GNSS) RWY16R

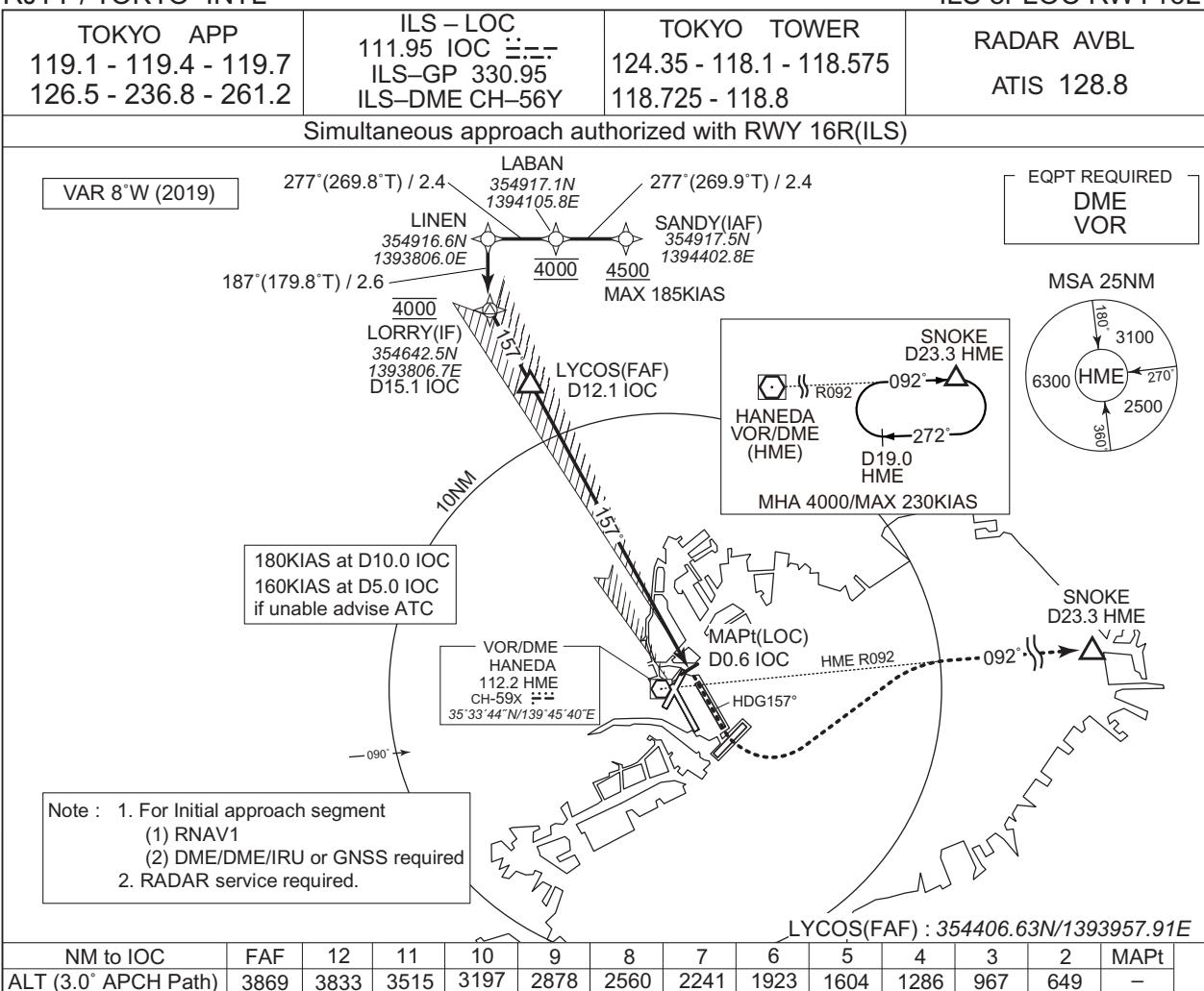


CHANGE : New PROC

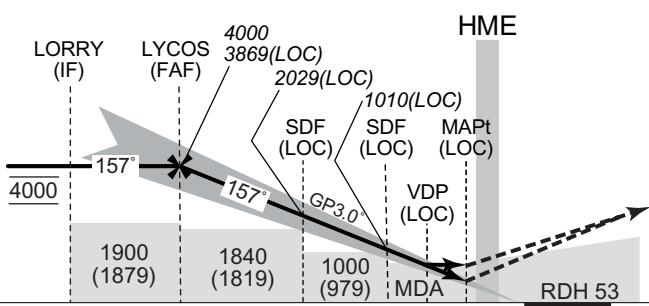
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS or LOC RWY16L



CHANGE : Description of procedure altitude at FAF.



MISSED APPROACH

Climb on HDG157° to 700FT, turn left to intercept and proceed via HME R092 to SNOKE and hold at 4000FT.

Contact TOKYO APP.

No turn before IOC 0.6DME.  
Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA    THR elev. 19    AD elev. 21

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A				1000		
B				1200		
C	219 (200)	550	530 (509)		730 (709)	1600
D				1600		2400
						3200

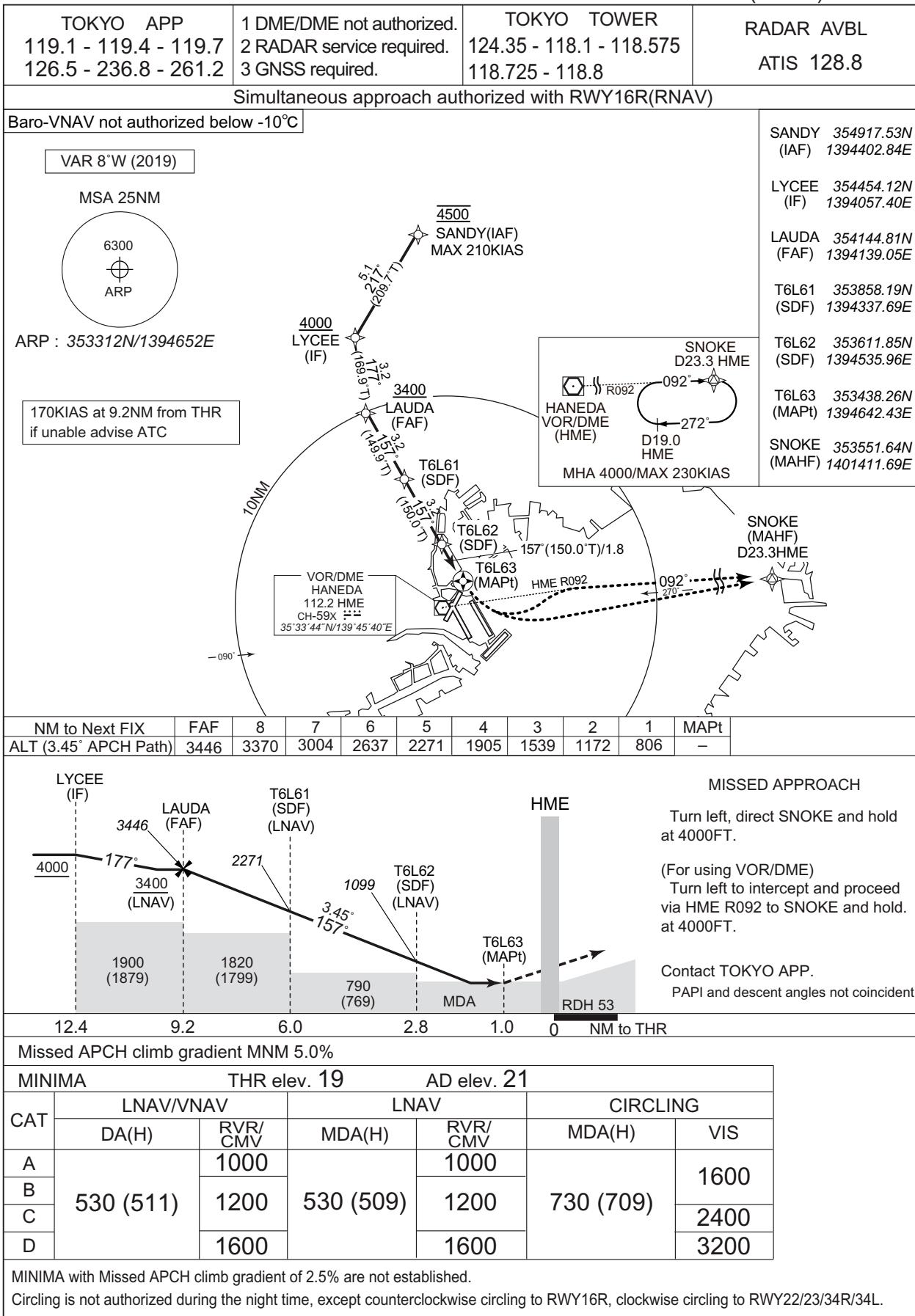
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNAV (GNSS) RWY16L

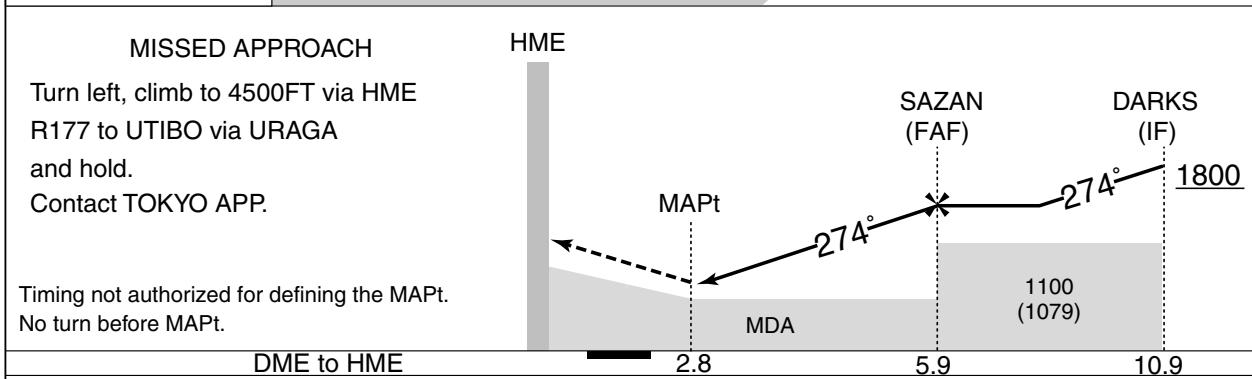


CHANGE : New PROC

INSTRUMENT APPROACH CHART

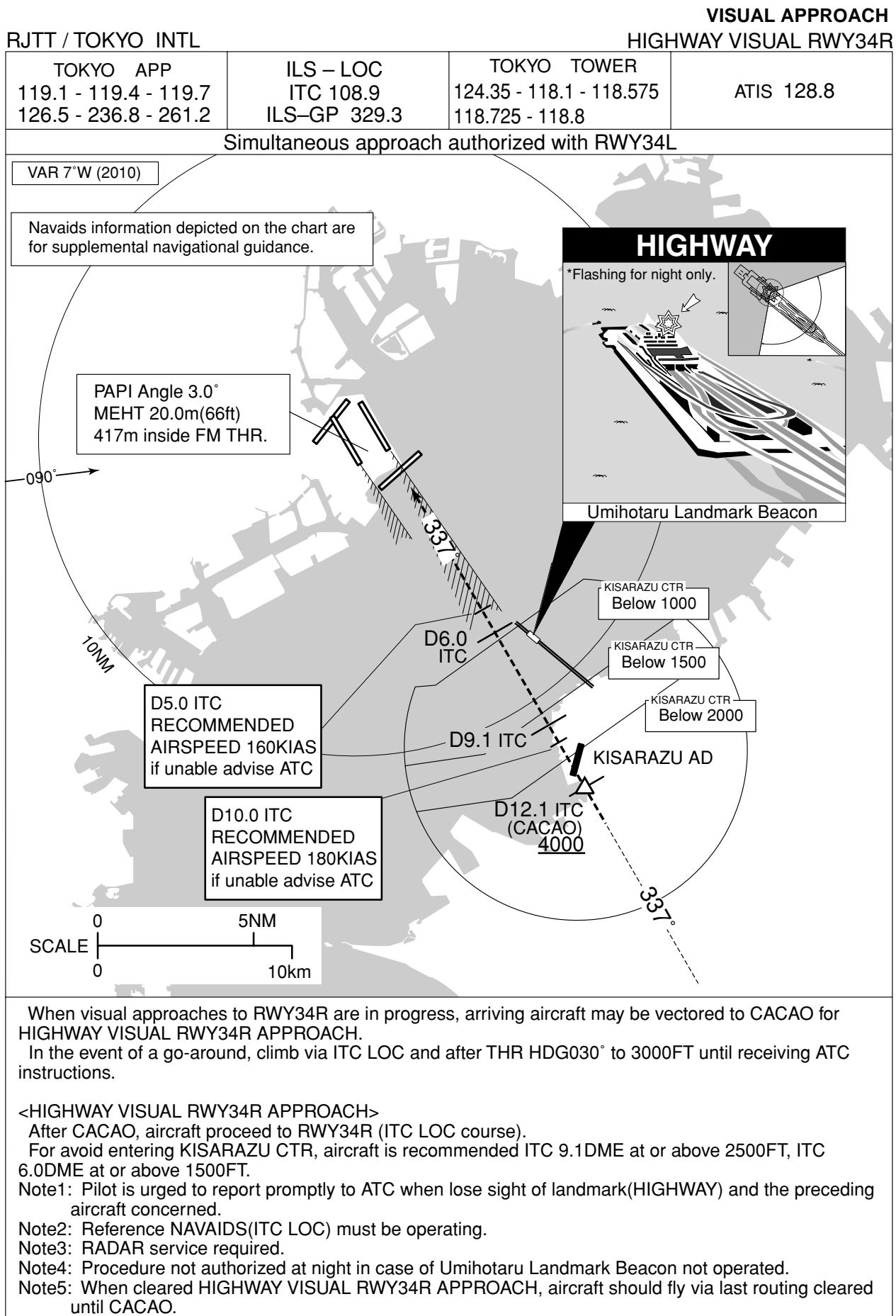
RJTT / TOKYO INTL

VOR A (for RWY16R/RWY16L)



MINIMA		AD elev. 21	
CAT	CIRCLING		
	MDA(H)	VIS	
A		1600	
B	760 (739)		
C		2400	
D		3200	

**INTENTIONALLY LEFT BLANK**



RJTT / TOKYO INTL

HLDG PATTERN



CHANGE : SNOKE established

RJTT / TOKYO INTL

RNAV HLDG PATTERN

<p>Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.</p> <p>1. Outbound Time / Distance 2. Speed → See Tabular Description.</p>		RNAV 1
ARLON MHA 4000	BACON MHA 4000	
COACH MHA 4000	CREAM MHA 4000	
DREAD MHA 5000	MESSE MHA 6000	
SCREW MHA 4000	STING MHA 4000	
NUMAN MHA 4000	OSHIMA(XAC) MHA 5000	
NEURO MHA 4000		

CHANGE : NEURO, NUMAN, SNARE, SPINE established

RJTT / TOKYO INTL

RNAV HLDG PATTERN

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	ACORN	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	MESSE	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : NEURO, NUMAN, SNARE, SPINE established

RJTT / TOKYO INTL

RNAV HLDG PATTERN

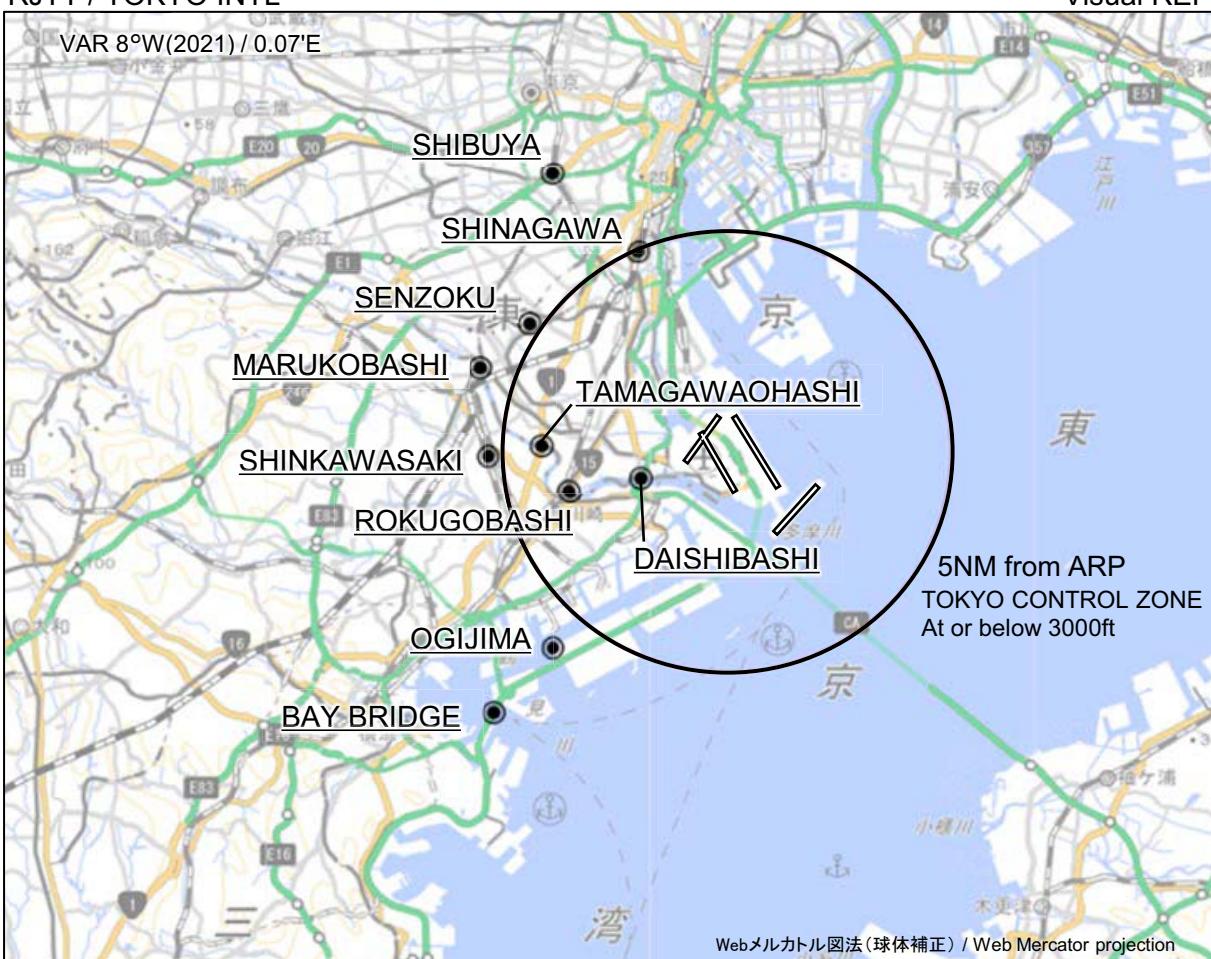
Waypoint Coordinates

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

CHANGE : NEURO, NUMAN, SNARE, SPINE established

RJTT / TOKYO INTL

Visual REP



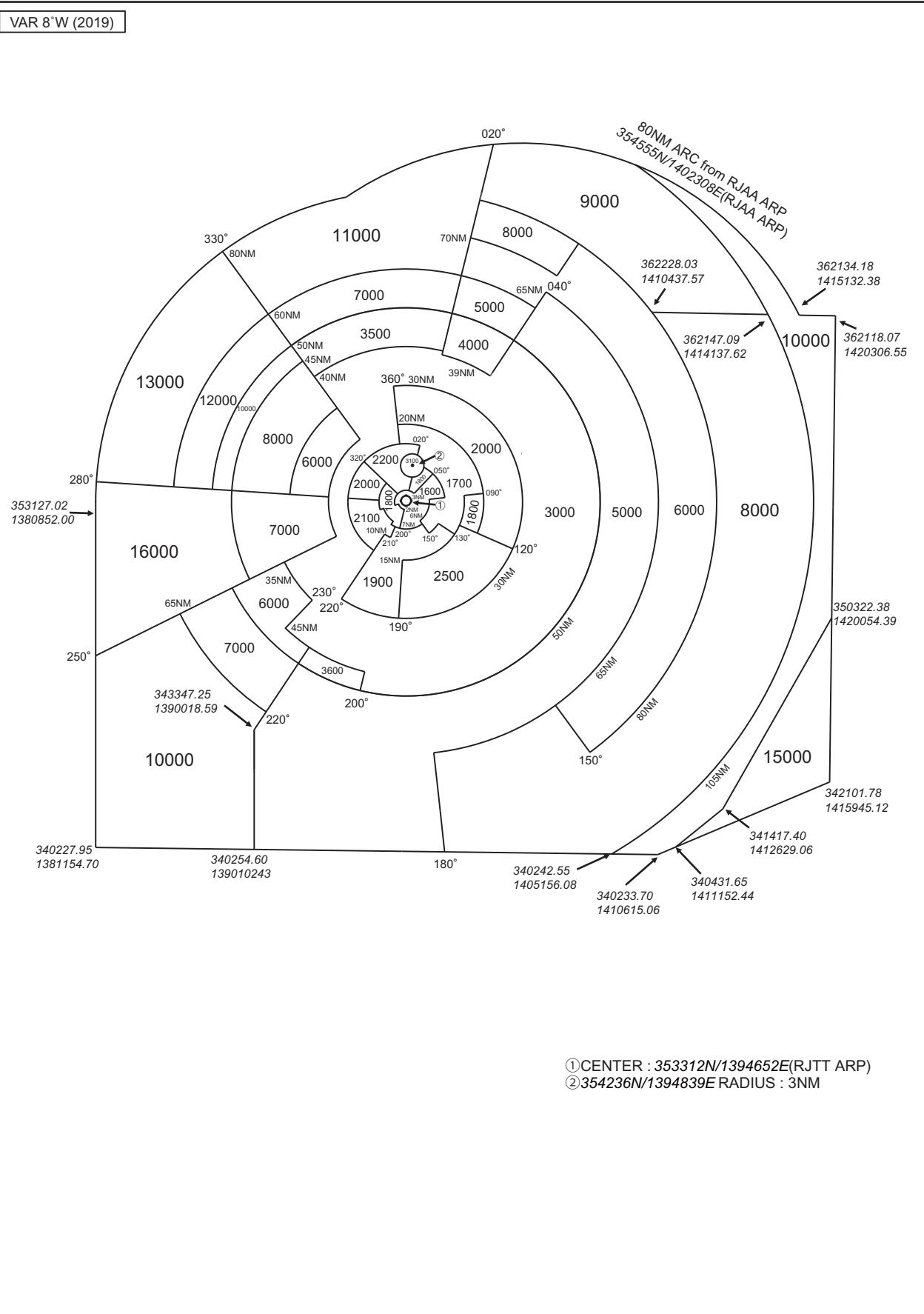
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

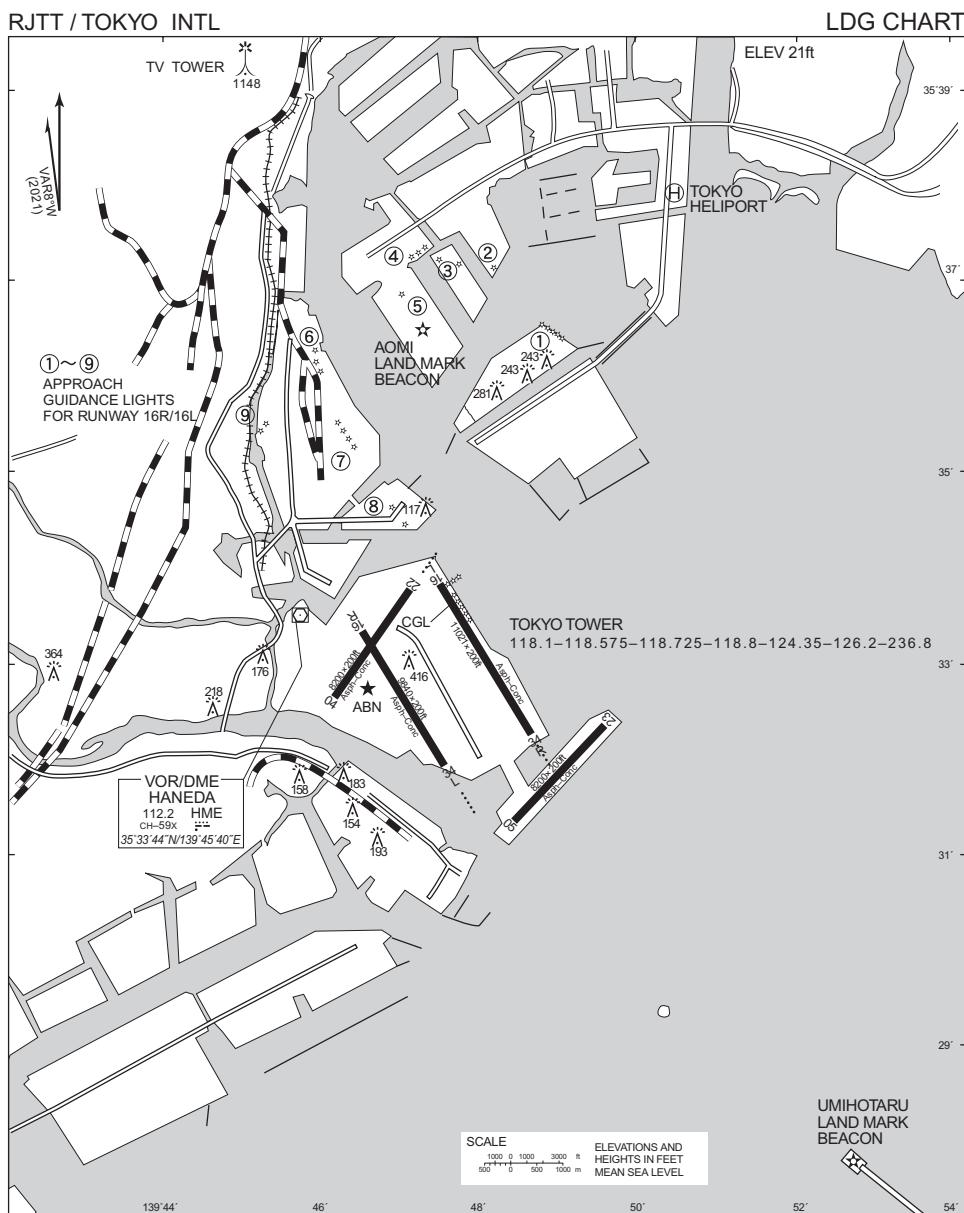
CHANGE : Map updated. BRG/DIST from ARP.

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

RJTT / TOKYO INTL

Minimum Vectoring Altitude CHART



**PAPI:**

RWY 16L-3.0°, MEHT 19.9m (65ft)

412m inside from THR.

RWY34R-3.0°, MEHT 20.0m (66ft)

416m inside from THR.

RWY16R-3.0°, MEHT 19.9m (65ft)

432m inside from THR.

RWY34L-3.0°, MEHT 20.0m (66ft)

449m inside from THR.

RWY04-3.0°, MEHT 18.5m (61ft)

369m inside from THR.

RWY 22-3.0°, MEHT 19.5m (63ft)

438m inside from THR.

RWY 23-3.0°, MEHT 20.0m (66ft)

452m inside from THR.

**RWY Grooving :**

RWY 16L/34R 3360m X 40m

RWY 16R/34L 3000m X 40m

RWY 04/22 2500m X 40m

RWY 05/23 2500m X 40m

Attachment-1

