

AD 2 AERODROMES

RJSC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJSC - YAMAGATA

RJSC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

| | | |
|---|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ARP coordinates and site at AD | 382443N 1402216E 006°/ 1.0km from RWY 01 THR |
| 2 | Direction and distance from (city) | 10.2nm NNE from Yamagata city |
| 3 | Elevation/ Reference temperature | 345ft / 30 °C (2004-2008) |
| 4 | Geoid undulation at AD ELEV PSN | 135ft |
| 5 | MAG VAR/ Annual change | 9°W (2024) /4°W |
| 6 | AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses | Yamagata Airport Office(Yamagata Pref) 3008 Kashiwabarashinrin Hanyuu Higashine-shi Yamagata 999-3776 Japan Tel: 0237-48-1313 Fax: 0237-48-1659 e-mail:yyamakuko@pref.yamagata.jp Web-site: http://www.pref.yamagata.jp/ |
| 7 | Types of traffic permitted (IFR/ VFR) | IFR/VFR |
| 8 | Remarks | Yamagata Airport Branch(CAB) 3008, Shinrin, Aza-Kashiwabara, Oaza-Hanyu, Higashine-shi, Yamagata Pref. Tel: 0237-48-1118 |

RJSC AD 2.3 OPERATIONAL HOURS

| | | |
|----|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1 | AD Administration | 2300 - 1100 |
| 2 | Customs and immigration | On request Customs: 023-641-0504 Immigration: 0234-22-2746 |
| 3 | Health and sanitation | On request Quarantine(human): 022-367-8101 Quarantine(animal): 022-383-2302 Quarantine(plant): 022-362-6916 |
| 4 | AIS Briefing Office | Nil |
| 5 | ATS Reporting Office(ARO) | Nil |
| 6 | MET Briefing Office | H24 (TOKYO) |
| 7 | ATS | 2300 - 1100 |
| 8 | Fuelling | 2300 - 1100 |
| 9 | Handling | 2300 - 1100 |
| 10 | Security | 2300 - 1100 |
| 11 | De-icing | Nil |
| 12 | Remarks | Nil |

RJSC AD 2.4 HANDLING SERVICES AND FACILITIES

| | | |
|---|-----------------------------------------|-------------------------------------------------------------------------------------------|
| 1 | Cargo-handling facilities | 2t-forklift car x 1, 7m-belt loading car x 2, Available up to only bulk loading aircraft. |
| 2 | Fuel/ oil types | JET A-1 |
| 3 | Fuelling facilities/ capacity | Fuel truck / 200kl(JET A-1) |
| 4 | De-icing facilities | De-icing car |
| 5 | Hangar space for visiting aircraft | Nil |
| 6 | Repair facilities for visiting aircraft | Nil |
| 7 | Remarks | Nil |

RJSC AD 2.5 PASSENGER FACILITIES

| | | |
|---|----------------------|-------------------------------------------------------|
| 1 | Hotels | around Airport |
| 2 | Restaurants | At Airport |
| 3 | Transportation | Airport Shuttle(Reservation required) and Taxi |
| 4 | Medical facilities | Hospital in Higashine city 6km |
| 5 | Bank and Post Office | Bank in Higashine city, Post Office in Higashine city |
| 6 | Tourist Office | Tourist Office in Higashine city |
| 7 | Remarks | Nil |

RJSC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

| | | |
|---|---------------------------------------------|----------------------------------|
| 1 | AD category for fire fighting | CAT 7 |
| 2 | Rescue equipment | Chemical fire fighting truck x 2 |
| 3 | Capability for removal of disabled aircraft | A300,B767 |
| 4 | Remarks | Nil |

RJSC AD 2.7 SEASONAL AVAILABILITY-CLEARING

| | | |
|---|-----------------------------|----------------------------------------------------------------|
| 1 | Types of clearing equipment | Snow remove equipments: truck x 10 , rotary x 3 , dozer x 1 |
| 2 | Clearance priorities | RWY , TWY , Apron (The same) |
| 3 | Remarks | Nil |

RJSC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

| | | |
|---|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Apron surface and strength | Apron : Surface:cement-concrete, Strength: PCR 750/R/C/W/T Small ACFT Apron: Surface:asphalt-concrete, Strength: AUW5,700kg/0.28MPa |
| 2 | Taxiway width, surface and strength | Width:30m Surface:asphalt-concrete Strength: PCR 704/F/B/X/T |
| 3 | ACL and elevation | Not available |
| 4 | VOR checkpoints | Not available |
| 5 | INS checkpoints | Spot NR 1:382435.52N 1402201.11E 1-1:382436.27N 1402201.52E 2:382437.31N 1402201.73E 3:382439.26N 1402201.81E 5:382441.02N 1402201.68E |
| 6 | Remarks | Nil |

RJSC 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 | Nil |
| 2 | RWY and TWY markings and LGT | RWY:01/19 (Marking) RWY designation, RWY CL, RWY THR, TDZ, RWY side stripe, Aiming point, RWY turn pad edge, RWY turn pad CL, RWY turn pad aiming (LGT) RCLL, REDL, RTHL, RENL, RTZL(FOR RWY01), WBAR(FOR RWY01), RWY DIST marker LGT, Turning point indicator LGT TWY: (Marking) TWY CL, RWY HLDG PSN, TWY side stripe marking (LGT) TWY edge LGT, TWY CL LGT |
| 3 | Stop bars | Nil |
| 4 | Remarks | (Marking) Overrun area (LGT) Apron flood LGT |

180° turn on RWY

B-767型機の滑走路180° 転回実施要領

1. 滑走路中心線からターニングパッド中心線標識に従って進行する。
2. 転回灯1が一直線に見えるように進行し、転回灯2が一直線に見えた時転回を開始する。転回時はMAX STEERING ANGLEを使用する。

Procedure of 180° turn on RWY for B-767 aircraft

1. Proceed along the RWY Turn Pad Center Line Marking.
 2. Proceed along the RWY Turn Pad Center Line Marking to see the Turning Point Indicator Light 1 on a straight line, then commence turn at the spot where you (pilot) can see the Turning Point Indicator Light 2 on a straight line at an angle of 9 o'clock.
- When turning, take MAX STEERING ANGLE.

YAMAGATA AP

RJSC AD 2.10 AERODROME OBSTACLES

■ In Area2 See Obstacle data

■ In Area3 To be developed

RJSC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

| | | |
|----|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Associated MET Office | TOKYO |
| 2 | Hours of service MET Office outside hours | H24 (TOKYO) |
| 3 | Office responsible for TAF preparation Periods of validity | Nil |
| 4 | Trend forecast Interval of issuance | Nil |
| 5 | Briefing/ consultation provided | Briefing is available upon inquiry at TOKYO |
| 6 | Flight documentation Language(s) used | C En |
| 7 | Charts and other information available for briefing or consultation | S ₆ , U ₈₅ , U ₇ , U ₅ , U ₃ , U ₂₅ , U _{2/T} , P _S , P ₅ , P ₃ , P ₂₅ , P _{SWE} , P _{SWF} , P _{SWG} , P _{SWI} , P _{SWM} , P _{SW} (domestic), E, C, W _E , W _F , W _G , W _I , W, N |
| 8 | Supplementary equipment available for providing information | Nil |
| 9 | ATS units provided with information | RADIO |
| 10 | Additional information(limitation of service, etc.) | Nil |

RJSC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations RWY NR | TRUE BRG | Dimensions of RWY(M) | Strength(PCR) 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 |
| 01 | 006.57° | 2000×45 | PCR 1013/F/D/X/T Asphalt Concrete | 382410.61N 1402212.06E 135.4FT | THR ELEV: 346.9ft TDZ ELEV: 346.9ft |
| 19 | 186.57° | 2000×45 | PCR 1013/F/D/X/T Asphalt Concrete | 382515.04N 1402221.52E 135.4FT | THR ELEV: 353ft |
| Slope of RWY | Strip Dimensions(M) | | RESA (Overrun) Dimensions(M) | | Remarks |
| 7 | 10 | | 11 | | 14 |
| See AD2.24 AD chart | 2120×300 2120×300 | | 152 × (MNM:157 MAX:300)* 83 × (MNM:287 MAX:300)* *For detail, ask airport administrator | | RWY grooving : 2000m×30m |

RJSC AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks |
|----------------|-------------|-------------|-------------|------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 01 | 2000 | 2000 | 2000 | 2000 | Nil |
| 19 | 2000 | 2000 | 2000 | 2000 | Nil |

RJSC 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 |
| 01 | PALS (CAT I) 900m LIH | Green Green | PAPI 3.0° /Left 410m 61ft | 900m | 2000m 30m Coded color (White/Red) LIH | 2000m 60m Coded color (White/Yellow) LIH | Red | Nil (*2) |
| 19 | SALS (*1) 420m LIH | Green Nil | PAPI 3.0°/Left 386.7m 61ft | Nil | 2000m 30m Coded color (White/Red) LIH | 2000m 60m Coded color (White/Yellow) LIH | Red | Nil (*2) |
| Remarks | | | | | | | | |
| 10 | | | | | | | | |
| SALS with APCH LGT beacon (600m and 900m FM RWY THR) (*1) Overrun area edge LGT(LEN:60m, color:Red) (*2) CGL for RWY 19 | | | | | | | | |

RJSC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

| | | |
|---|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ABN/IBN location, characteristics and hours of operation | ABN : 382445N/1402156E, White/Green EV4.3sec, HO |
| 2 | LDI location and LGT Anemometer location and LGT | LDI : Nil Anemometer : RWY01 : On the north side of 170m FM RWY01 THR, LGTD RWY19 : On the north side of 30m FM RWY19 THR, LGTD |
| 3 | TWY edge and center line lighting | TWY edge and center line lights installed, see AD 2.9 |
| 4 | Secondary power supply/switch-over time | Within 1sec : REDL, RCLL, RTHL, RENL, WBAR, Turning point indicator LGT, Overrun area edge LGT Within 15sec : Other LGT |
| 5 | Remarks | WDI LGT |

RJSC AD 2.16 HELICOPTER LANDING AREA

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

RJSC AD 2.17 ATS AIRSPACE

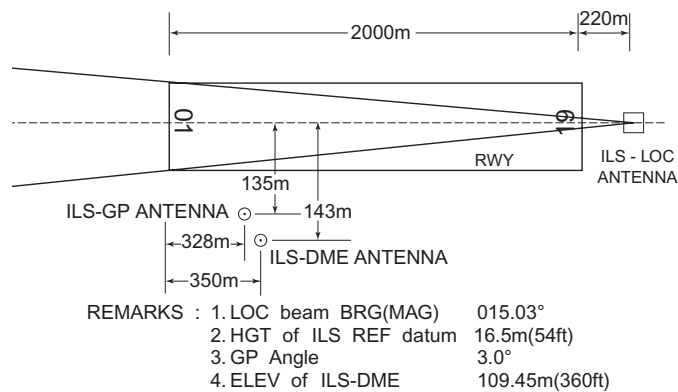
| Designation and lateral limits | | Vertical limits (ft) | Airspace classification | ATS unit call sign Language | Remarks |
|--------------------------------|-----------------------------------------|----------------------|-------------------------|-----------------------------|---------|
| 1 | | 2 | 3 | 4 | 6 |
| Yamagata Information zone | Area within a radius of 9km(5NM) of ARP | 3000 or below | E | Yamagata radio En | |

RJSC AD 2.18 ATS COMMUNICATION FACILITIES

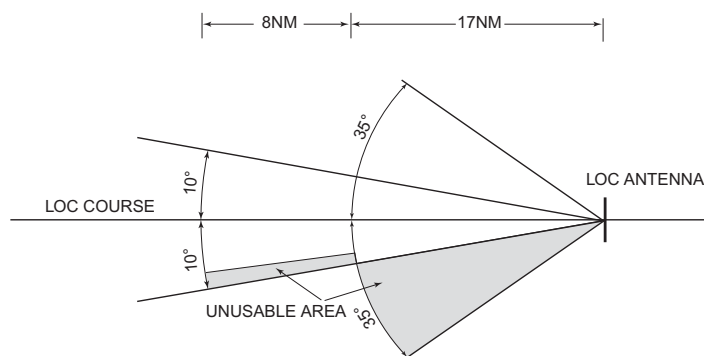
| Service designation | Call sign | Frequency | Hours of operation | Remarks |
|---------------------|----------------|----------------------------------------|--------------------|------------|
| 1 | 2 | 3 | 4 | 5 |
| AFIS | Yamagata Radio | 122.7MHz(1) 126.2MHz 243.0MHz(E) | 2300 - 1100 | (1)Primary |

RJSC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid (VOR declination) | ID | Frequency | Hours of operation | Position of transmitting antenna coordinates | Elevation of DME transmit- ting antenna | Remarks |
|-------------------------------------|-----|---------------------|-----------------------|-------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| VOR (8°W/2016) | YTE | 113MHz | H24 | 382319.04N 1402128.63E | | VOR/DME Unusable: 030°-040° beyond 35nm BLW 8000ft. 040°-060° beyond 25nm BLW 8000ft. 060°-070° beyond 15nm BLW 8000ft. 070°-080° beyond 15nm BLW 7000ft. 080°-110° beyond 20nm BLW 7000ft. 110°-150° beyond 15nm BLW 7000ft. 150°-160° beyond 25nm BLW 9000ft. 160°-170° beyond 30nm BLW 9000ft. 170°-180° beyond 25nm BLW 9000ft. 250°-260° beyond 35nm BLW 9000ft. 260°-270° beyond 35nm BLW 8000ft. 300°-320° beyond 30nm BLW 9000ft. 320°-330° beyond 20nm BLW 9000ft. 330°-340° beyond 30nm BLW 10000ft. |
| DME | YTE | 1164MHz (CH-77X) | H24 | 382319.04N 1402128.63E | 361ft | |
| ILS-LOC 01 | IYT | 110.1MHz | 2300 - 1100 | 382522.13N 1402222.56E | | LOC: 220m(722ft) away FM RWY 19 THR, BRG(MAG) 015.03° LOC Unusable in the following area (1)beyond 10 degrees East side of LOC course. (2)beyond 8 degrees East side of LOC course beyond 17NM fm LOC antenna. |
| ILS-GP 01 | - | 334.4MHz | 2300 - 1100 | 382420.66N 1402219.20E | | GP : 328m(1076ft) inside FM RWY 01 THR, 135m (443ft) E of RCL, angle 3.0°HGT of ILS Ref datum 16.5m(54ft). |
| ILS-DME 01 | IYT | 999MHz (CH-38X) | 2300 - 1100 | 382421.31N 1402219.57E | 360ft | DME :350m(1148ft)inside FM RWY 01,143m(469ft) E of RCL. |
| MSAS | | 1575.42MHz | H24 | | | Transmitting antennas are satellite based. |

ILS

LOC unusable is the following area : (1) beyond 10° East side of LOC course.
 (2) beyond 8° East side of LOC course beyond 17nm from LOC ANT.

**RJSC AD 2.20 LOCAL TRAFFIC REGULATIONS**

1. Airport regulations

On use of YAMAGATA airport, aircraft operator is required to notify the airport administrator in advance.

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft(General aviation)

Nil

4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

Nil

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

RJSC AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJSC 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 | 01 | A,B,C,D | 400 | 400 | 400 | 400 | - | 500 |
| | 19 | A,B,C,D | - | 400 | - | 400 | - | 500 |
| OTHER | 01 | A,B,C,D | AVBL LDG MINIMA | | | | | |
| | 19 | A,B,C,D | | | | | | |

2. OTHER

VFR aircraft intending to land on or fly around the AP, especially south and north of the AP, is recommended to make initial contact with Yamagata RADIO to obtain traffic information at least 15nm far from the AP.

当空港に着陸または空港周辺、特に空港の南及び北側を飛行しようとする VFR の航空機については、交通情報の入手のため、少なくとも 15NM 以遠からの山形 RADIO との通信設定が推奨される。

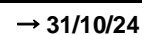
RJSC AD 2.23 ADDITIONAL INFORMATION

Nil

RJSC AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart
Standard Departure Chart - Instrument (YAMAGATA)
Standard Departure Chart - Instrument (RUBIS-RNAV)
Standard Departure Chart - Instrument (NIIGATA-RNAV)
Standard Departure Chart - Instrument (HANKA-RNAV)
Standard Arrival Chart - Instrument (YOZAN WEST, YOZAN NORTH-RNAV)
Standard Arrival Chart - Instrument (MEDET WEST, MEDET SOUTH-RNAV)
Standard Arrival Chart - Instrument (TUYAH-RNAV)
Instrument Approach Chart (ILS Z RWY01)
Instrument Approach Chart (LOC Z RWY01)
Instrument Approach Chart (ILS Y RWY01)
Instrument Approach Chart (LOC Y RWY01)
Instrument Approach Chart (VOR A)
Instrument Approach Chart (RNP RWY19)
Other Chart (Visual REP)
Other Chart (LDG CHART)
Other Chart (MVA CHART)

AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA

SID

YAMAGATA FOUR DEPARTURE

RWY01 : Climb RWY HDG to 2000FT, via YTE R017 to 22.0DME, turn left, via YTE R003 to YTE VOR/DME.

RWY19 : Climb RWY HDG to 2000FT, turn right, direct to YTE VOR/DME, cross YTE VOR/DME at or above 4000FT, via YTE R017 to 15.0DME, turn left, via YTE R354 to YTE VOR/DME.

Note RWY01: 5.0% climb gradient required up to 2000FT.

OBST ALT 1182FT located at 4.2NM 033° FM end of RWY01.

RWY19: 5.0% climb gradient required up to 2000FT.

OBST ALT 788FT located at 3.1NM 181° FM end of RWY19.

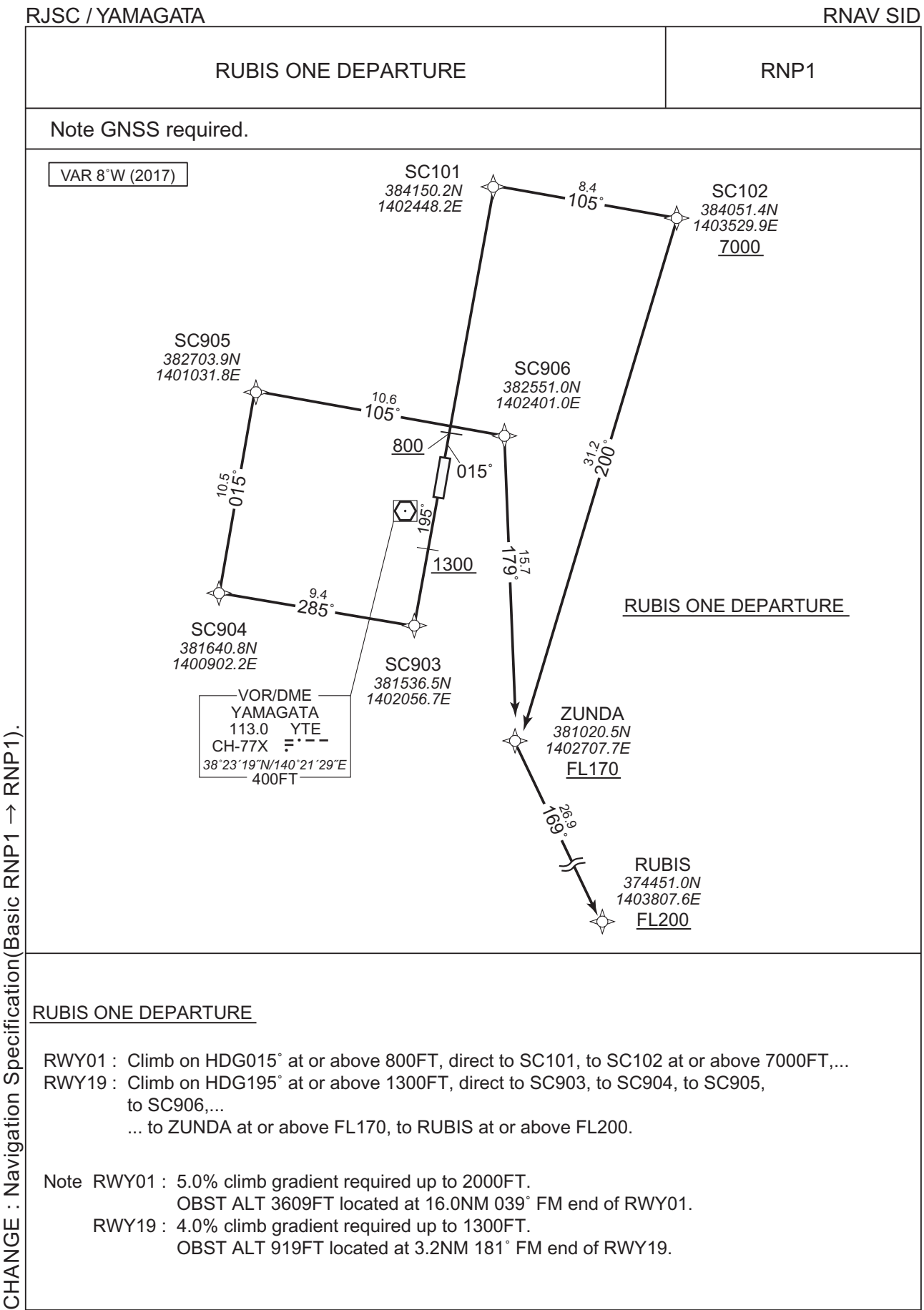
Note No turn before DER.

For RWY01

For RWY19



STANDARD DEPARTURE CHART-INSTRUMENT



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA

RNAV SID

RUBIS ONE DEPARTURE

RWY01

| Serial Number | 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 | - | - | 015 (006.6) | -8.2 | - | - | +800 | - | - | RNP1 |
| 002 | DF | SC101 | - | - | -8.2 | - | - | - | - | - | RNP1 |
| 003 | TF | SC102 | - | 105 (096.6) | -8.2 | 8.4 | - | +7000 | - | - | RNP1 |
| 004 | TF | ZUNDA | - | 200 (192.2) | -8.2 | 31.2 | - | +FL170 | - | - | RNP1 |
| 005 | TF | RUBIS | - | 169 (161.2) | -8.2 | 26.9 | - | +FL200 | - | - | RNP1 |

RWY19

| Serial Number | 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 | - | - | 195 (186.6) | -8.2 | - | - | +1300 | - | - | RNP1 |
| 002 | DF | SC903 | - | - | -8.2 | - | - | - | - | - | RNP1 |
| 003 | TF | SC904 | - | 285 (276.6) | -8.2 | 9.4 | - | - | - | - | RNP1 |
| 004 | TF | SC905 | - | 015 (006.4) | -8.2 | 10.5 | - | - | - | - | RNP1 |
| 005 | TF | SC906 | - | 105 (096.5) | -8.2 | 10.6 | - | - | - | - | RNP1 |
| 006 | TF | ZUNDA | - | 179 (171.0) | -8.2 | 15.7 | - | +FL170 | - | - | RNP1 |
| 007 | TF | RUBIS | - | 169 (161.2) | -8.2 | 26.9 | - | +FL200 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

RJSC / YAMAGATA **RNAV SID**

| | |
|------------------------------|-------------|
| NIIGATA ONE DEPARTURE | RNP1 |
|------------------------------|-------------|

Note GNSS required.

VAR 8°W (2017)

NIIGATA ONE DEPARTURE

VOR/DME
YAMAGATA
113.0 YTE
CH-77X ---
38°23'19"N/140°21'29"E
400FT

VORTAC
NIIGATA
115.5 GTC
CH-102X ---
37°57'30"N/139°06'54"E
0FT

NIIGATA ONE DEPARTURE

RWY01 : Climb on HDG015° at or above 800FT, turn left direct to SC100,...

RWY19 : Climb on HDG195° at or above 800FT, direct to SC900,...

... to AKAYU at or above FL150, to GTC.

Note RWY01 : 5.5% climb gradient required up to 2500FT.
OBST ALT 2198FT located at 6.3NM 321° FM end of RWY01.

RWY19 : 4.3% climb gradient required up to 800FT.
OBST ALT 722FT located at 2.8NM 182° FM end of RWY19.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

| RJSC / YAMAGATA | | | | | | | | | | | RNAV SID |
|-------------------------------------------------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| NIIGATA ONE DEPARTURE | | | | | | | | | | | |
| RWY01 | | | | | | | | | | | |
| Serial Number | 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 | - | - | 015 (006.6) | -8.2 | - | - | +800 | - | - | RNP1 |
| 002 | DF | SC100 | - | - | -8.2 | - | L | - | - | - | RNP1 |
| 003 | TF | AKAYU | - | 266 (258.2) | -8.2 | 14.7 | - | +FL150 | - | - | RNP1 |
| 004 | TF | GTC | - | 266 (258.0) | -8.2 | 31.3 | - | - | - | - | RNP1 |
| RWY19 | | | | | | | | | | | |
| Serial Number | 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 | - | - | 195 (186.6) | -8.2 | - | - | +800 | - | - | RNP1 |
| 002 | DF | SC900 | - | - | -8.2 | - | - | - | - | - | RNP1 |
| 003 | TF | AKAYU | - | 267 (258.3) | -8.2 | 26.3 | - | +FL150 | - | - | RNP1 |
| 004 | TF | GTC | - | 266 (258.0) | -8.2 | 31.3 | - | - | - | - | RNP1 |
| CHANGE : Navigation Specification(Basic RNP1 → RNP1). | | | | | | | | | | | |

STANDARD DEPARTURE CHART-INSTRUMENT



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA RNAV SID

HANKA ONE DEPARTURE

RWY01

| Serial Number | 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 | - | - | 015 (006.6) | -8.2 | - | - | +800 | - | - | RNP1 |
| 002 | DF | SC902 | - | - | -8.2 | - | - | - | - | - | RNP1 |
| 003 | TF | HANKA | - | 029 (020.8) | -8.2 | 18.9 | - | +13000 | - | - | RNP1 |

RWY19

| Serial Number | 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 | - | - | 195 (186.6) | -8.2 | - | - | +1300 | - | - | RNP1 |
| 002 | DF | SC901 | - | - | -8.2 | - | R | - | - | - | RNP1 |
| 003 | TF | SC902 | - | 029 (020.7) | -8.2 | 20.1 | - | - | - | - | RNP1 |
| 004 | TF | HANKA | - | 029 (020.8) | -8.2 | 18.9 | - | +13000 | - | - | RNP1 |

YOZAN WEST ARRIVAL / YOZAN NORTH ARRIVAL

RNP1

Note GNSS required.

VAR 8°W (2017)

YOZAN WEST ARRIVAL

YOZAN NORTH ARRIVAL

ELDAK
380133.9N
1394540.4E
FL150

SUGGY
380424.9N
1400035.7E
11000

YOZAN
380617.1N
1400922.8E
9000

IMONY
381111.6N
1401005.0E
MAX 250KIAS

YAMAGATA (YTE)
382319.0N
1402128.6E

VOR/DME
YAMAGATA
113.0 YTE
CH-77X
38°23'19"N/140°21'29"E
400FT

12.1
085°

7.2
083°

4.9
195°

15.1
225°

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

RJSC / YAMAGATA

RNAV STAR RWY01

STANDARD ARRIVAL CHART - INSTRUMENT

RJSC / YAMAGATA

RNAV STAR RWY01

YOZAN WEST ARRIVAL

From ELDAK at or above FL150, to SUGGY at or above 11000FT,
to YOZAN at or above 9000FT.

| Serial Number | 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 | ELDAK | - | - | -8.2 | - | - | +FL150 | - | - | RNP1 |
| 002 | TF | SUGGY | - | 085 (076.3) | -8.2 | 12.1 | - | +11000 | - | - | RNP1 |
| 003 | TF | YOZAN | - | 083 (074.8) | -8.2 | 7.2 | - | +9000 | - | - | RNP1 |

YOZAN NORTH ARRIVAL

From YTE, to IMONY, to YOZAN at or above 9000FT.

| Serial Number | 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 | YTE | - | - | -8.2 | - | - | - | - | - | RNP1 |
| 002 | TF | IMONY | - | 225 (216.5) | -8.2 | 15.1 | - | - | -250 | - | RNP1 |
| 003 | TF | YOZAN | - | 195 (186.4) | -8.2 | 4.9 | - | +9000 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT



STANDARD ARRIVAL CHART - INSTRUMENT

RJSC / YAMAGATA

RNAV STAR RWY19

MEDET WEST ARRIVAL

From ELDAK at or above FL150, to QDARI at or above 8000FT,
to MEDET at or above 7000FT.

| Serial Number | 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 | ELDAK | - | - | -8.2 | - | - | +FL150 | - | - | RNP1 |
| 002 | TF | QDARI | - | 039 (030.3) | -8.2 | 17.1 | - | +8000 | - | - | RNP1 |
| 003 | TF | MEDET | - | 039 (030.4) | -8.2 | 27.1 | - | +7000 | - | - | RNP1 |

MEDET SOUTH ARRIVAL

From IBELU at or above 9000FT, to MOGMI, to MEDET at or above 7000FT.

| Serial Number | 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 | IBELU | - | - | -8.2 | - | - | +9000 | - | - | RNP1 |
| 002 | TF | MOGMI | - | 002 (353.7) | -8.2 | 29.3 | - | - | - | - | RNP1 |
| 003 | TF | MEDET | - | 015 (006.5) | -8.2 | 11.5 | - | +7000 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT

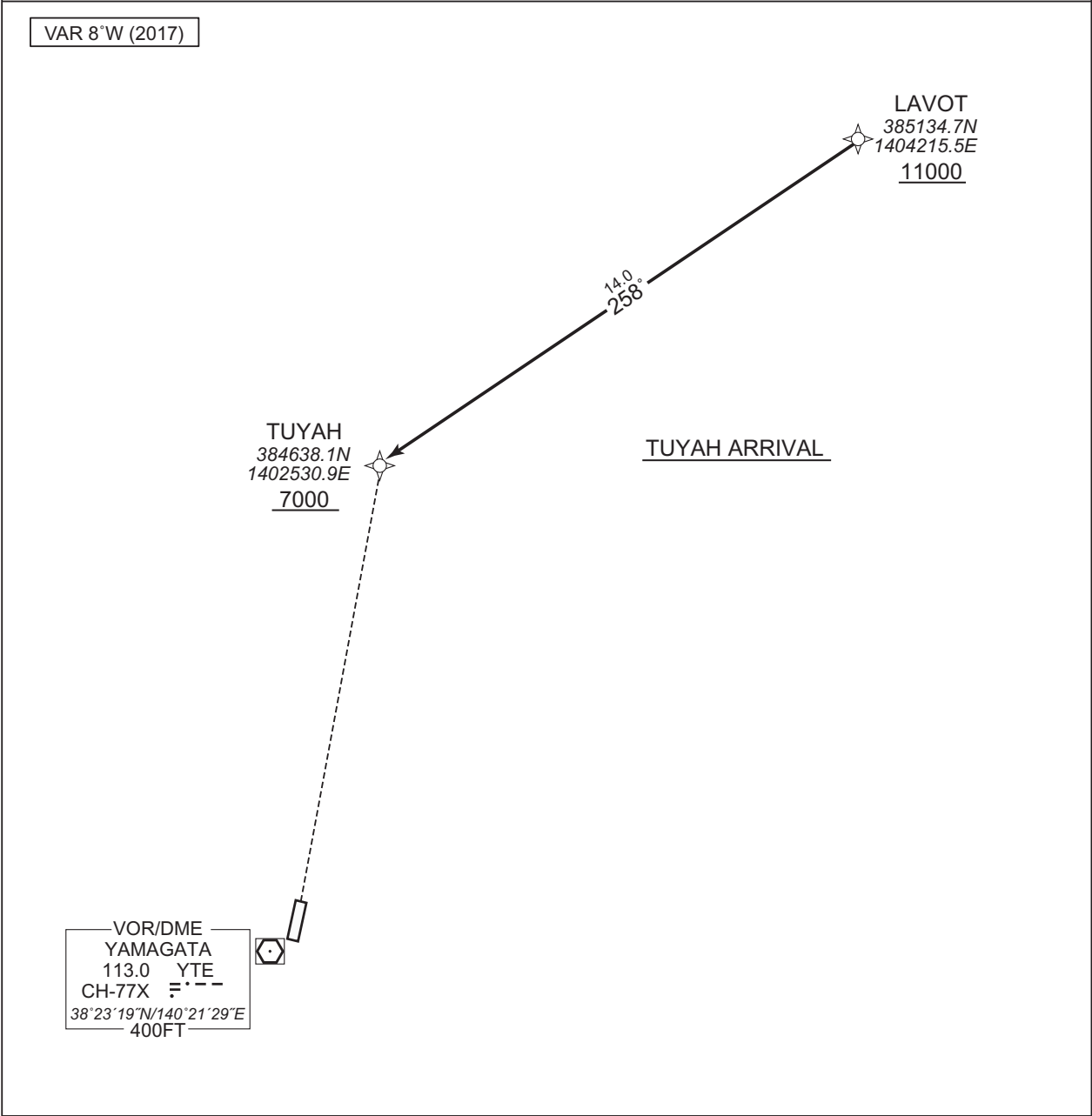
RJSC / YAMAGATARNAV STAR RWY19

| | |
|---------------|------|
| TUYAH ARRIVAL | RNP1 |
|---------------|------|

Note GNSS required.

VAR 8°W (2017)

CHANGE : Navigation Specification(Basic RNP1 → RNP1).



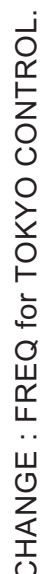
TUYAH ARRIVAL

From LAVOT at or above 11000FT, to TUYAH at or above 7000FT.

| Serial Number | 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 | LAVOT | — | — | -8.2 | — | — | +11000 | — | — | RNP1 |
| 002 | TF | TUYAH | — | 258 (249.3) | -8.2 | 14.0 | — | +7000 | — | — | RNP1 |

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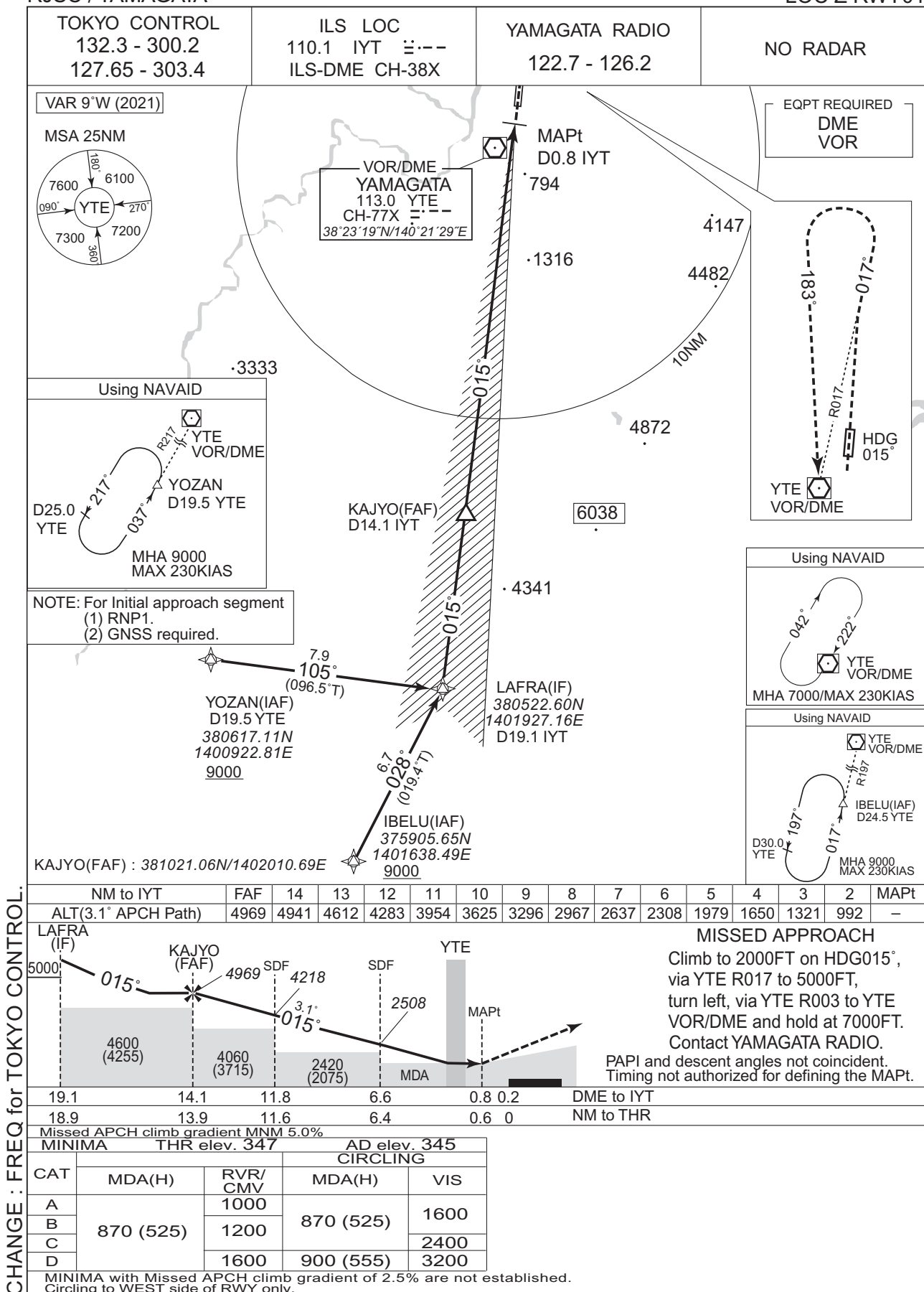
ILS Z RWY01



INSTRUMENT APPROACH CHART

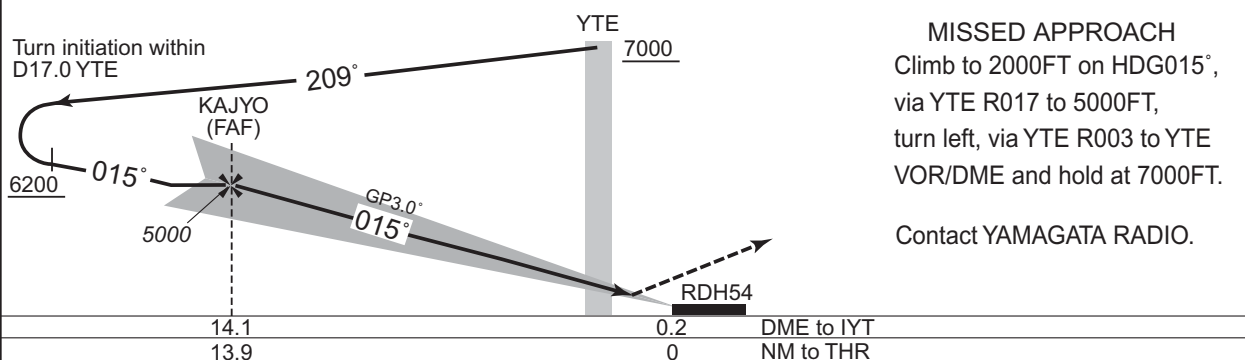
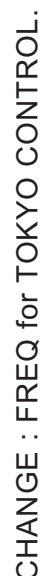
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LOC Z RWY01



RJSC / YAMAGATA

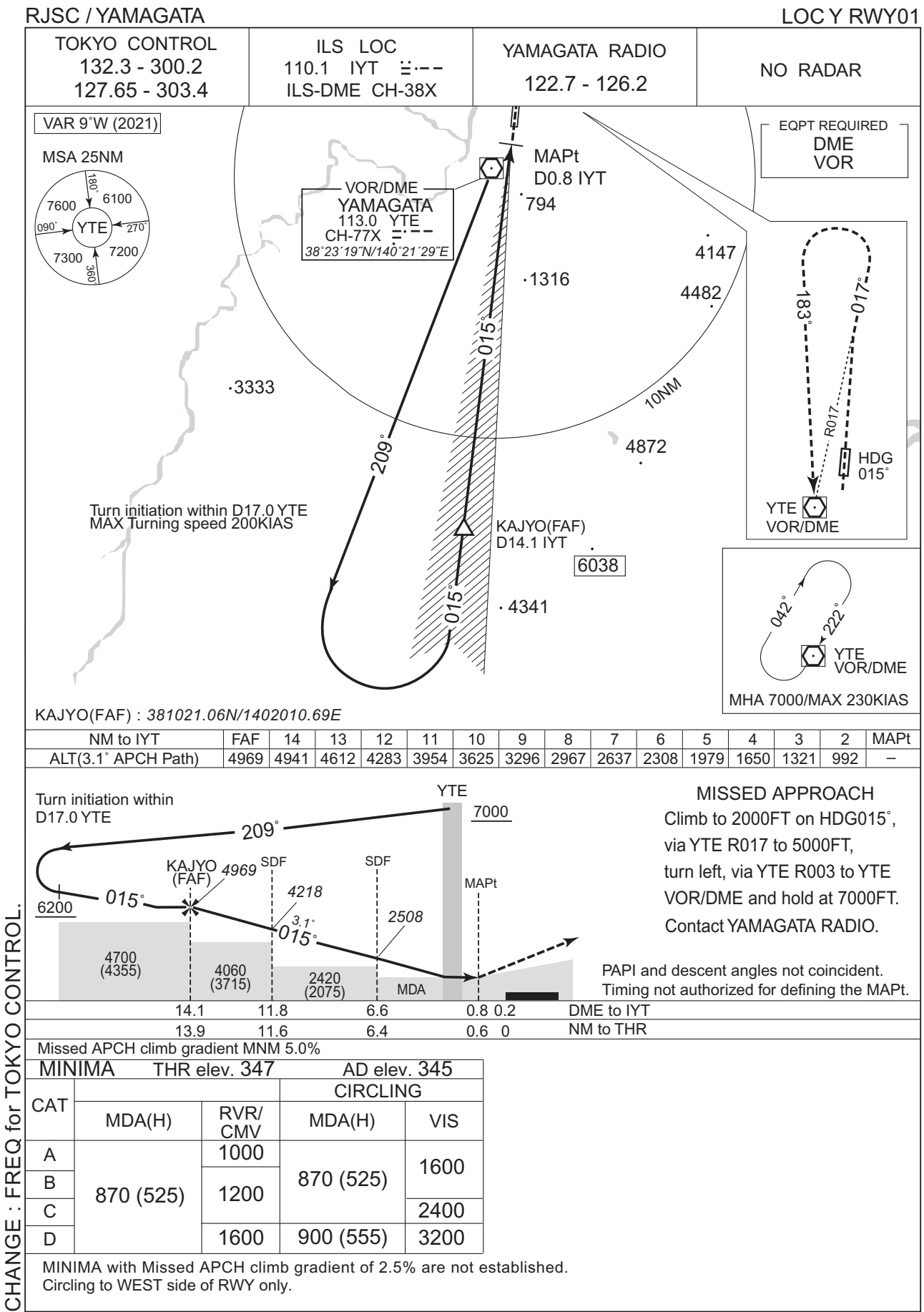
ILS Y RWY01



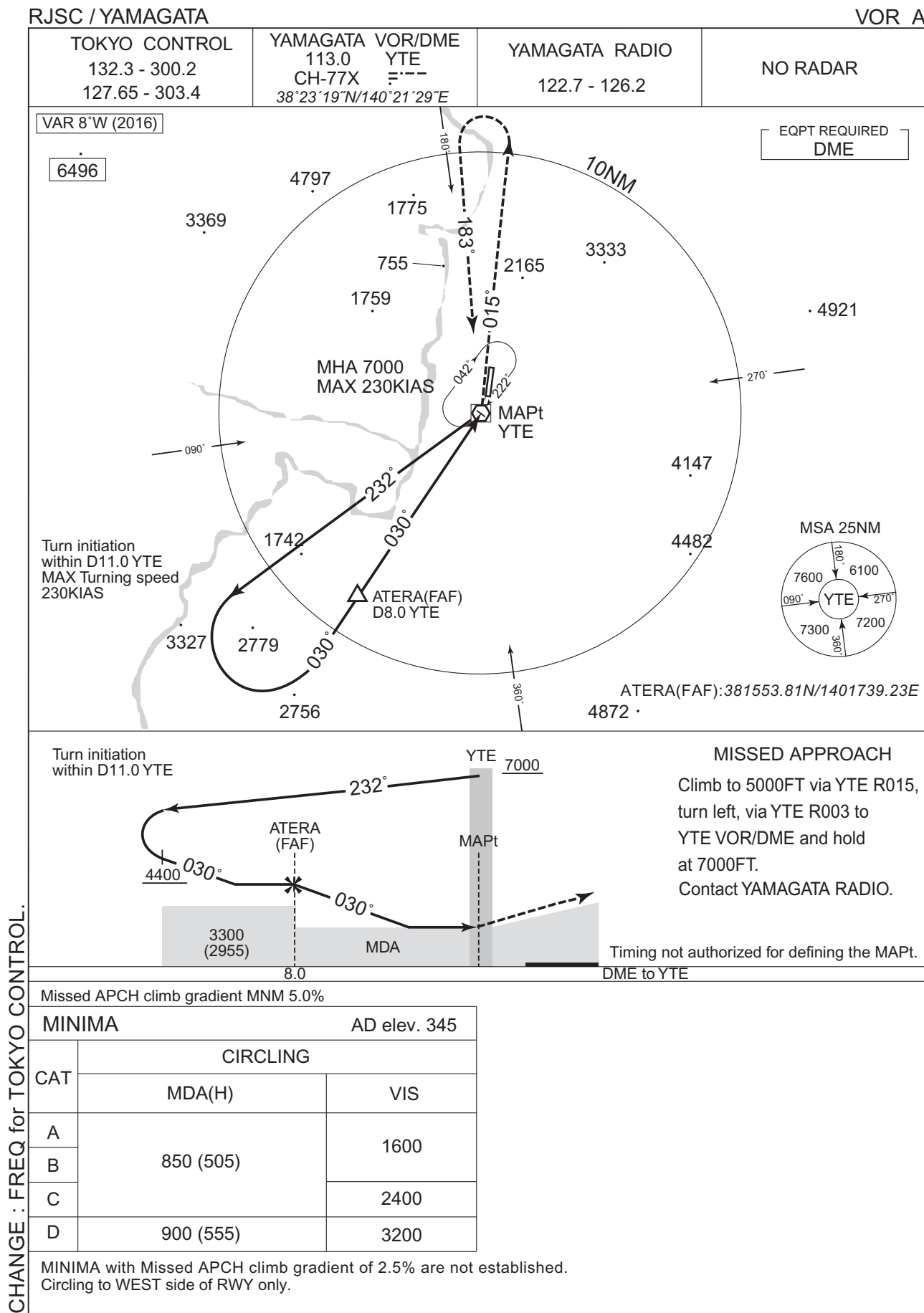
| | | | | |
|-------------------------------------|-----------|---------------|--------------|------|
| Missed APCH climb gradient MNM 5.0% | | | | |
| MINIMA | | THR elev. 347 | AD elev. 345 | |
| CAT | CAT I | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 547 (200) | 550 | 790 (445) | 1600 |
| B | | | 800 (455) | |
| C | | | | 2400 |
| D | | | 900 (555) | 3200 |

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

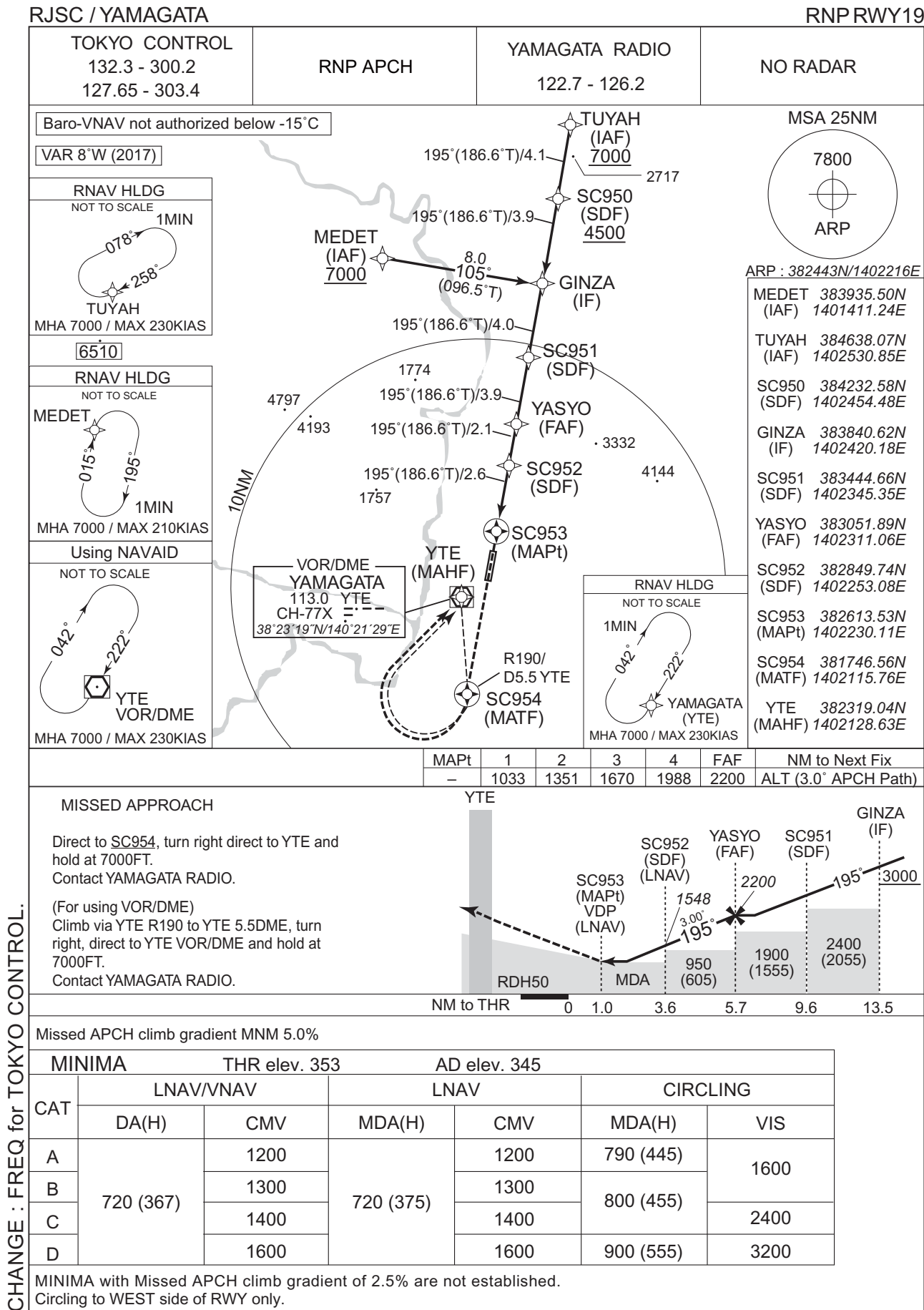
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

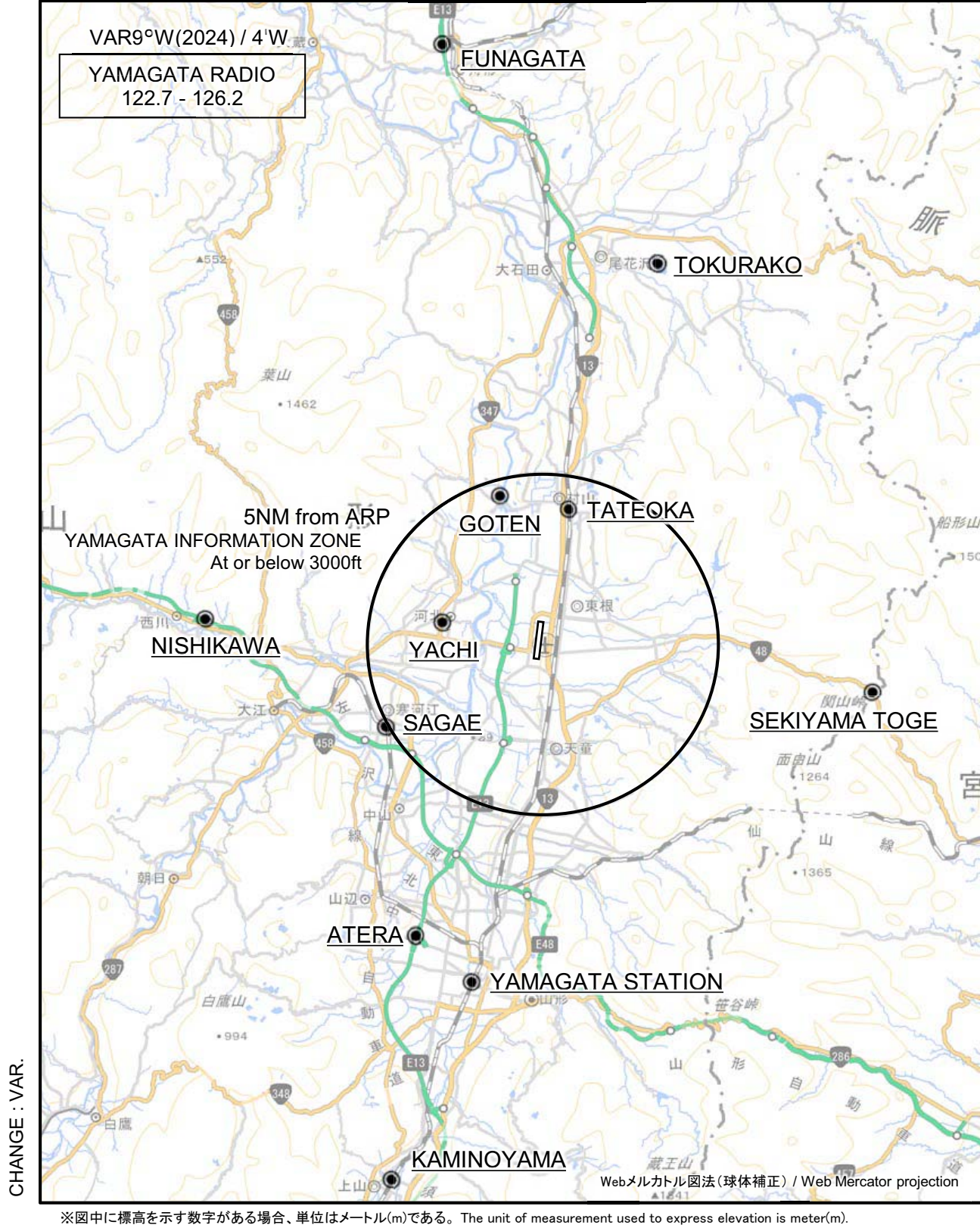


INSTRUMENT APPROACH CHART



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Visual REP

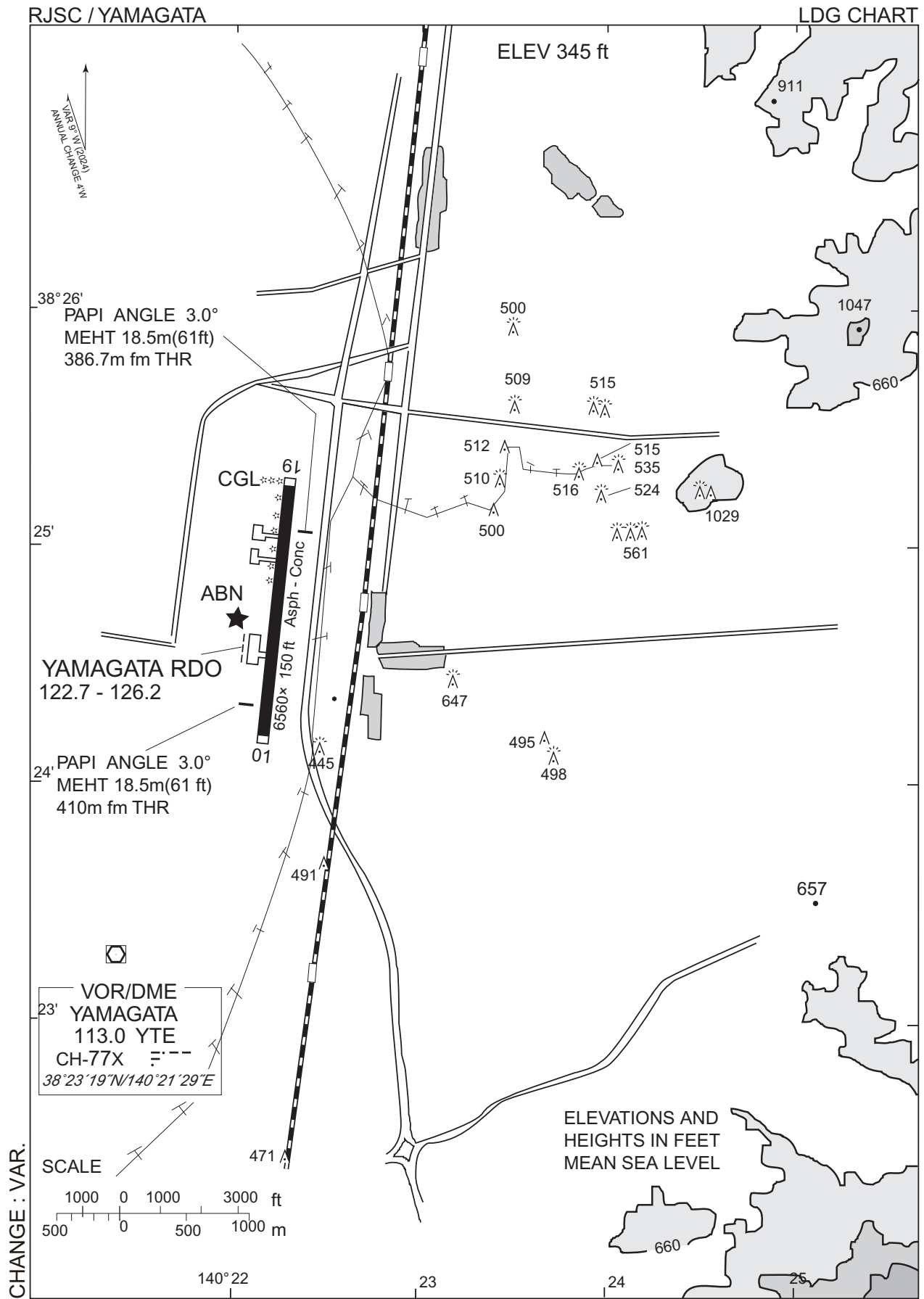


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Visual REP

| Call sign | BRG / DIST from ARP | Remarks |
|------------------------------|---------------------|-----------------------------|
| 舟形 Funagata | 351°T / 17.7NM | 舟形インターチェンジ Interchange |
| 徳良湖 Tokurako | 017°T / 11.5NM | 徳良湖 Lake |
| 基点 Goten | 344°T / 4.5NM | 村山市民体育館 Gymnasium |
| 楯岡 Tateoka | 010°T / 4.0NM | 村山駅(旧楯岡駅) JR station |
| 西川 Nishikawa | 274°T / 9.8NM | 西川インターチェンジ Interchange |
| 谷地 Yachi | 282°T / 3.0NM | 谷地高校 School |
| 関山峠 Sekiyama Toge | 100°T / 9.5NM | 関山トンネル Tunnel |
| 寒河江 Sagae | 242°T / 5.1NM | 寒河江駅 JR station |
| アテラ Atera | 203°T / 9.3NM | 山形中央インターチェンジ Interchange |
| 山形ステーション Yamagata Station | 192°T / 10.0NM | 山形駅 JR station |
| 上山 Kaminoyama | 196°T / 16.2NM | かみのやま温泉駅 JR station |

CHANGE : Kaminoyama(Remarks).



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Minimum Vectoring Altitude CHART

