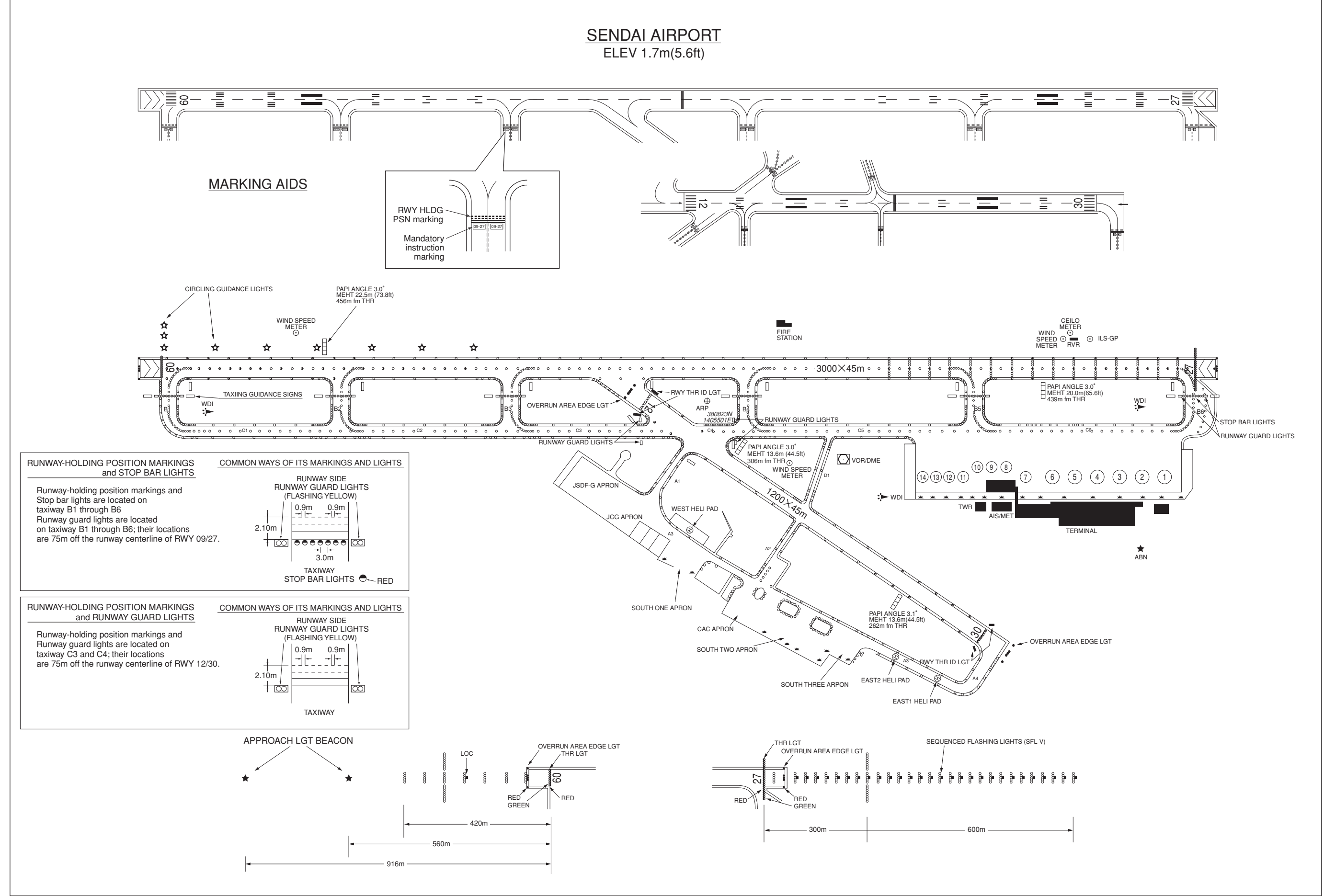
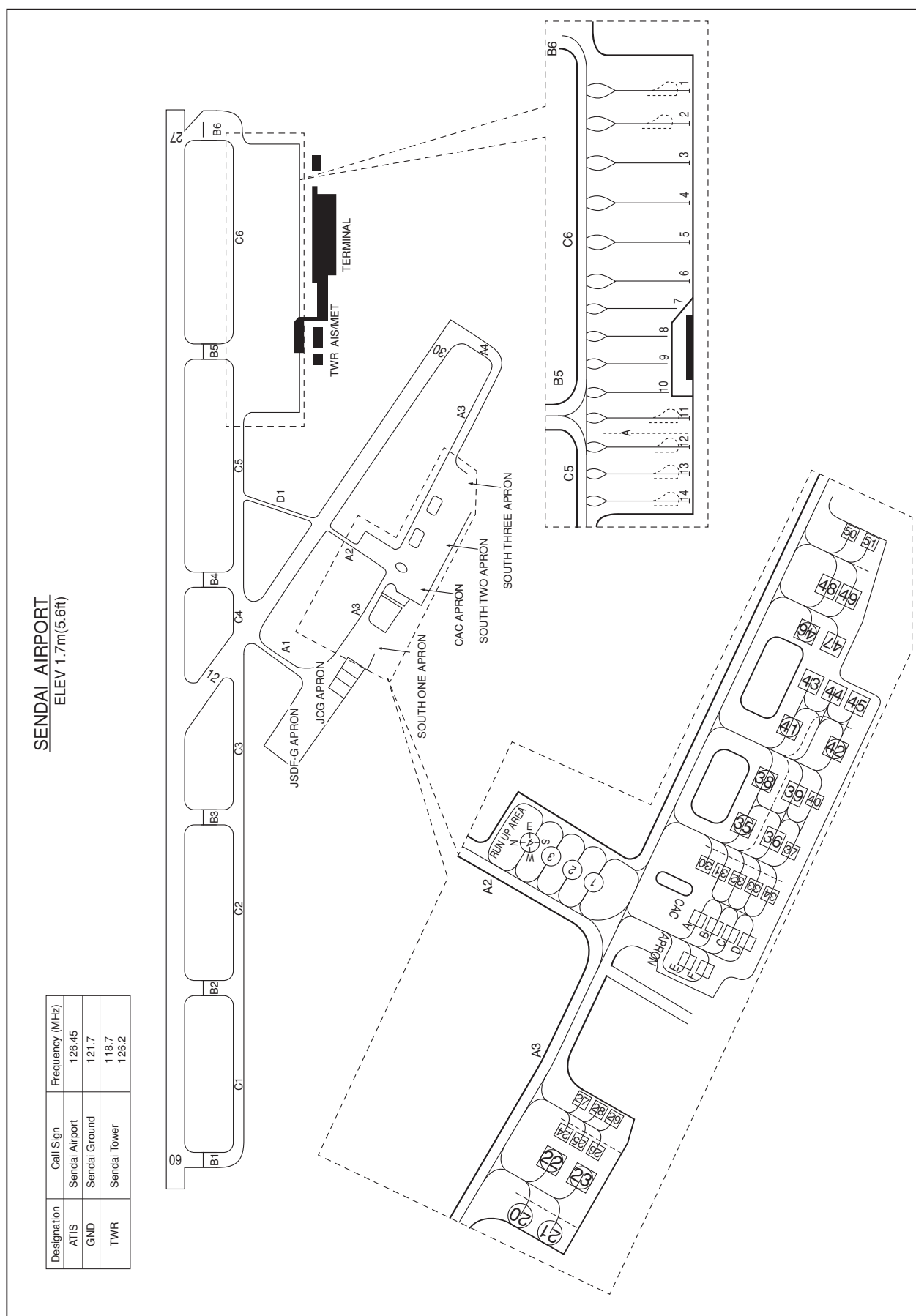


AERODROME CHART



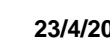


AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



STANDARD DEPARTURE CHART-INSTRUMENT

RJSS / SENDAI

SID

IWAKI EIGHT DEPARTURE

RWY 09 : Climb RWY HDG to SDE 3.4DME (2.8NM FM DER), turn right to intercept and proceed...

RWY 12 : Climb ...

RWY 27 : Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed...

RWY 30 : Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed...
...via SDE R120, via IXE R024 to IXE VOR/DME.

Cross IXE R024/46.7DME at or above 11000FT, cross IXE R024/28.0DME at or above FL150, cross IXE VOR/DME at assigned altitude.

Note RWY 09 : 5.0% climb gradient required up to 500FT.

OBST ALT 62FT located at 0.2NM 102° FM end of RWY09.

RWY 27 : 5.0% climb gradient required up to 1000FT.

OBST ALT 919FT located at 4.1NM 269° FM end of RWY27.

RWY 30 : 5.0% climb gradient required up to 1200FT.

OBST ALT 1181FT located at 5.3NM 283° FM end of RWY30.

CHANGE : PROC renamed.Restriction added (IXE R024/46.7DME).



STANDARD DEPARTURE CHART-INSTRUMENT

RJSS / SENDAI

SID

SENDAI REVERSAL SIX DEPARTURE

RWY 09 : Climb RWY HDG to SDE 3.4DME (2.8NM fm DER), turn right to intercept and proceed...

RWY 12 : Climb ...

RWY 27 : Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed...

RWY 30 : Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed...
...via SDE R120 to 10.0DME, turn right, direct to SDE VOR/DME.

Cross SDE VOR/DME at or above 7000FT(*).

* In case of proceeding to IXE VOR/DME : Cross SDE VOR/DME at or above 5000FT.

In case of proceeding to FKE VOR/DME : Cross SDE VOR/DME at or above 6000FT.

Note RWY 09 : 5.0% climb gradient required up to 500FT.

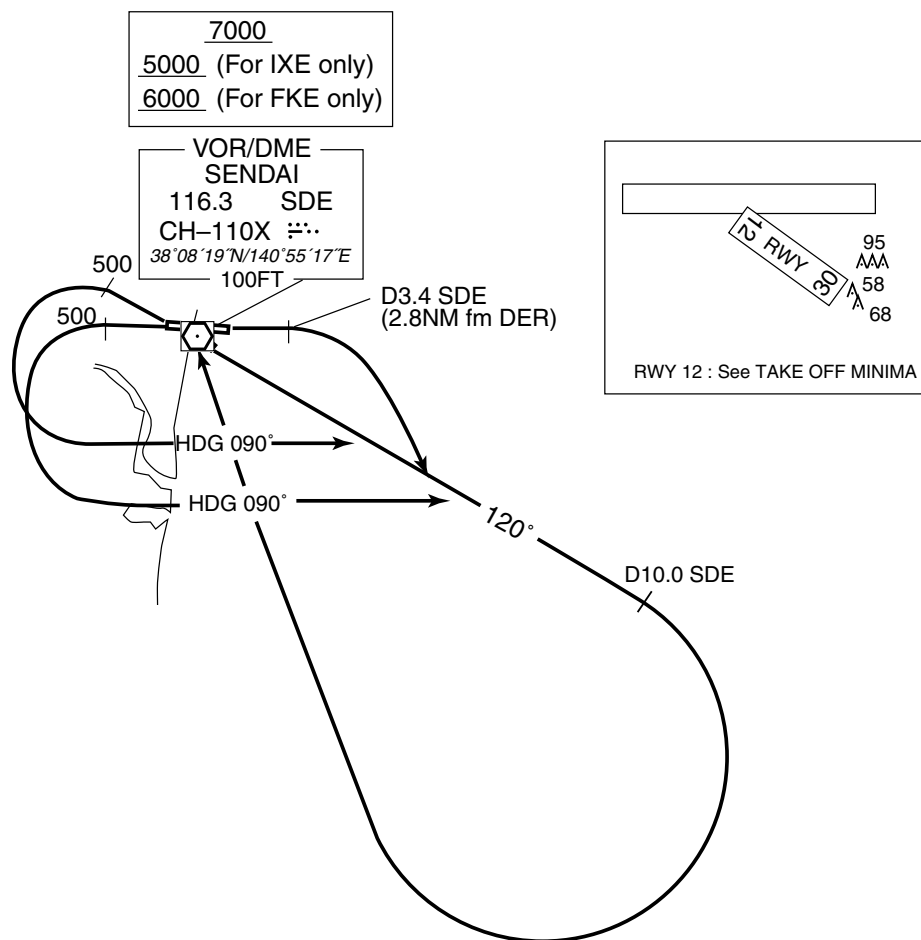
OBST ALT 62FT located at 0.2NM 102° FM end of RWY09.

RWY 27 : 5.0% climb gradient required up to 1000FT.

OBST ALT 919FT located at 4.1NM 269° FM end of RWY27.

RWY 30 : 5.0% climb gradient required up to 1200FT.

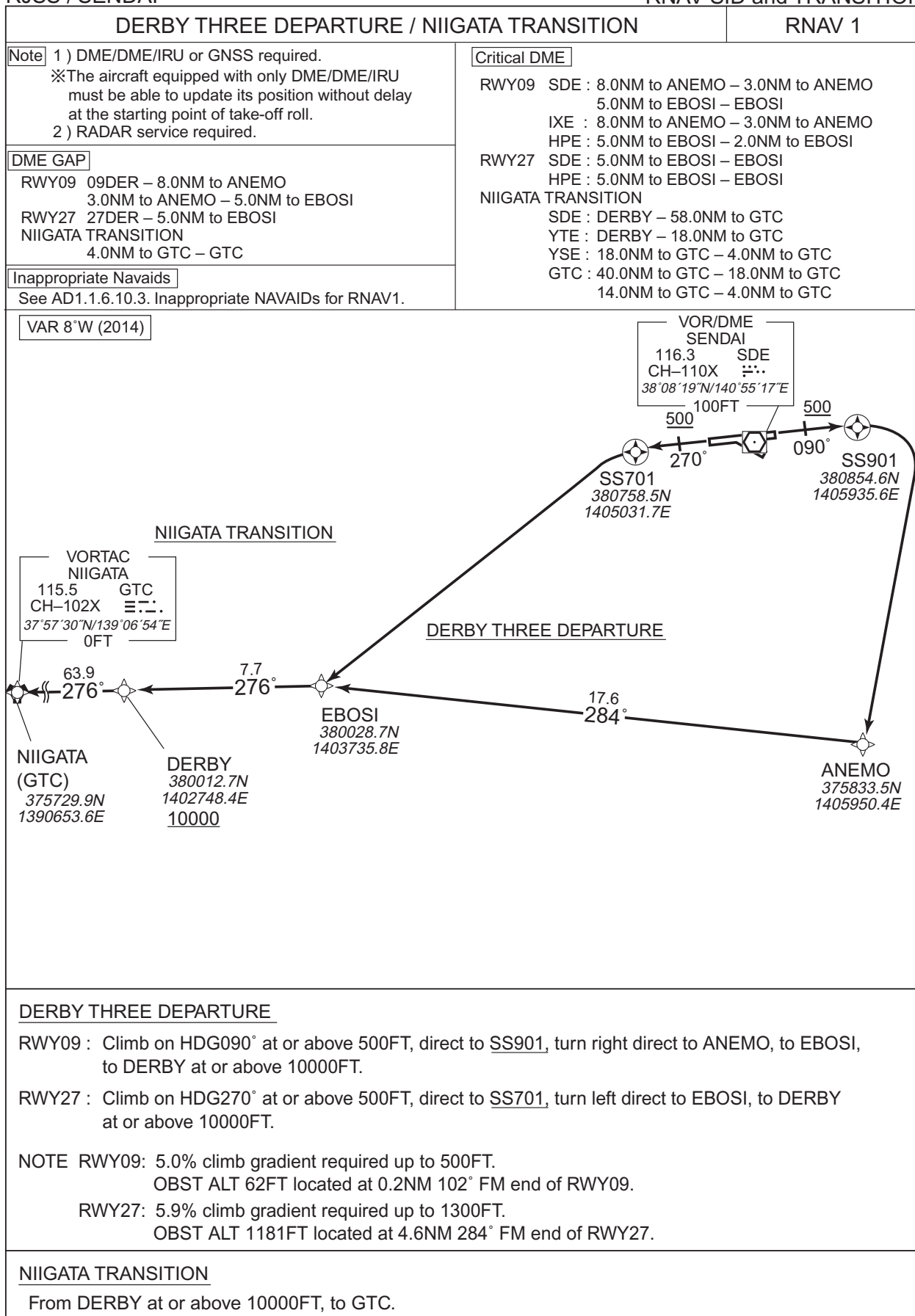
OBST ALT 1181FT located at 5.3NM 283° FM end of RWY30.

SENDAI REVERSAL SIX DEPARTURE

STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID and TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID and TRANSITION

DERBY THREE DEPARTURE

RWY09

| 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 | — | — | 090 (082.5) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | SS901 | Y | — | -7.8 | — | — | — | — | — | RNAV1 |
| 003 | DF | ANEMO | — | — | -7.8 | — | R | — | — | — | RNAV1 |
| 004 | TF | EBOSI | — | 284 (276.4) | -7.8 | 17.6 | — | — | — | — | RNAV1 |
| 005 | TF | DERBY | — | 276 (268.1) | -7.8 | 7.7 | — | +10000 | — | — | RNAV1 |

RWY27

| 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 | — | — | 270 (262.5) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | SS701 | Y | — | -7.8 | — | — | — | — | — | RNAV1 |
| 003 | DF | EBOSI | — | — | -7.8 | — | L | — | — | — | RNAV1 |
| 004 | TF | DERBY | — | 276 (268.1) | -7.8 | 7.7 | — | +10000 | — | — | RNAV1 |

NIIGATA 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 | DERBY | — | — | -7.8 | — | — | +10000 | — | — | RNAV1 |
| 002 | TF | GTC | — | 276 (268.0) | -7.8 | 63.9 | — | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID and TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID and TRANSITION

STEED THREE DEPARTURE

RWY09

| 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 | — | — | 090 (082.5) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | SS901 | Y | — | -7.8 | — | — | — | — | — | RNAV1 |
| 003 | DF | STEED | — | — | -7.8 | — | R | — | — | — | RNAV1 |

RWY27

| 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 | — | — | 270 (262.5) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | BUBLE | — | — | -7.8 | — | L | — | — | — | RNAV1 |
| 003 | TF | STEED | — | 188 (180.9) | -7.8 | 20.0 | — | — | — | — | RNAV1 |

RIKYU 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 | STEED | — | — | -7.8 | — | — | — | — | — | RNAV1 |
| 002 | TF | RIKYU | — | 256 (248.4) | -7.8 | 27.3 | — | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID

CUBIC THREE DEPARTURE

RNAV 1

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 roll.
2) RADAR service required.

Critical DME

RWY09 SDE, IXE : 29.0NM to CUBIC – CUBIC
RWY27 MXT : 4.0NM to BUBLE – 2.0NM to CUBIC
SDE : 2.0NM to BUBLE – 12.0NM to CUBIC

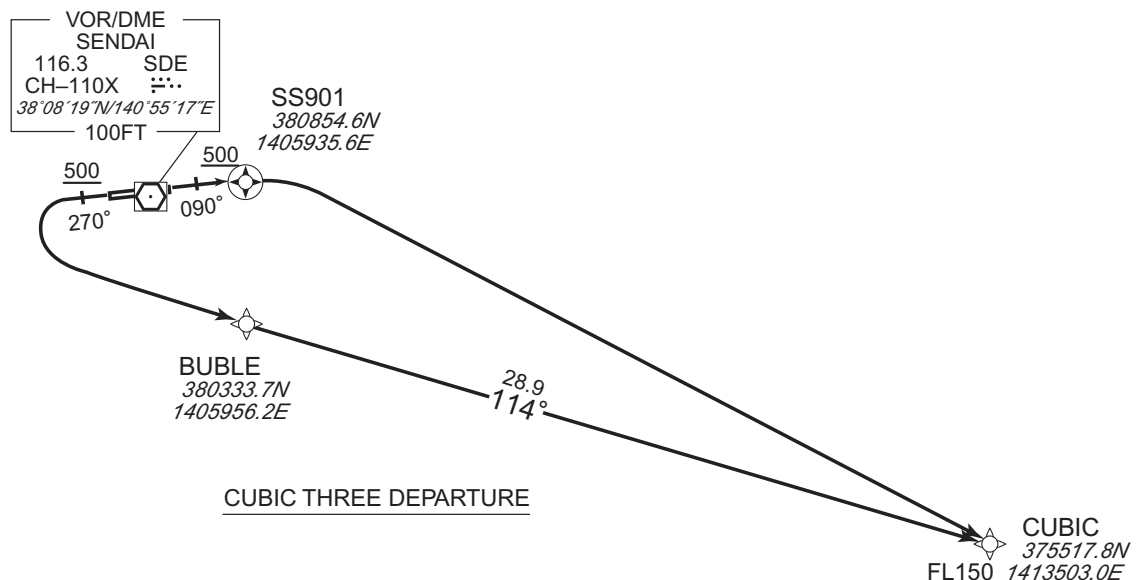
DME GAP

RWY09 09DER – 29.0NM to CUBIC
RWY27 27DER – 4.0NM to BUBLE

Inappropriate NavAids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

VAR 8° W(2014)

**CUBIC THREE DEPARTURE**

RWY09 : Climb on HDG090° at or above 500FT, direct to SS901, turn right direct to CUBIC at or above FL150.

RWY27 : Climb on HDG270° at or above 500FT, turn left direct to BUBLE, to CUBIC at or above FL150.

NOTE RWY09: 5.0% climb gradient required up to 500FT.
OBST ALT 62FT located at 0.2NM 102° FM end of RWY09.
RWY27: 5.0% climb gradient required up to 1000FT.
OBST ALT 919FT located at 4.1NM 269° FM end of RWY27.

STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID

CUBIC THREE DEPARTURE

RWY09

| 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 | — | — | 090 (082.5) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | SS901 | Y | — | -7.8 | — | — | — | — | — | RNAV1 |
| 003 | DF | CUBIC | — | — | -7.8 | — | R | +FL150 | — | — | RNAV1 |

RWY27

| 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 | — | — | 270 (262.5) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | BUBLE | — | — | -7.8 | — | L | — | — | — | RNAV1 |
| 003 | TF | CUBIC | — | 114 (106.5) | -7.8 | 28.9 | — | +FL150 | — | — | RNAV1 |

STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV TRANSITION

TOHOKU 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 | CUBIC | — | — | -8.2 | — | — | +FL150 | — | — | RNAV1 |
| 002 | TF | RIDER | — | 020 (011.6) | -8.2 | 24.3 | — | — | — | — | RNAV1 |
| 003 | TF | SAITI | — | 351 (343.2) | -8.2 | 70.0 | — | — | — | — | RNAV1 |
| 004 | TF | SAMBO | — | 351 (343.0) | -8.2 | 47.4 | — | — | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

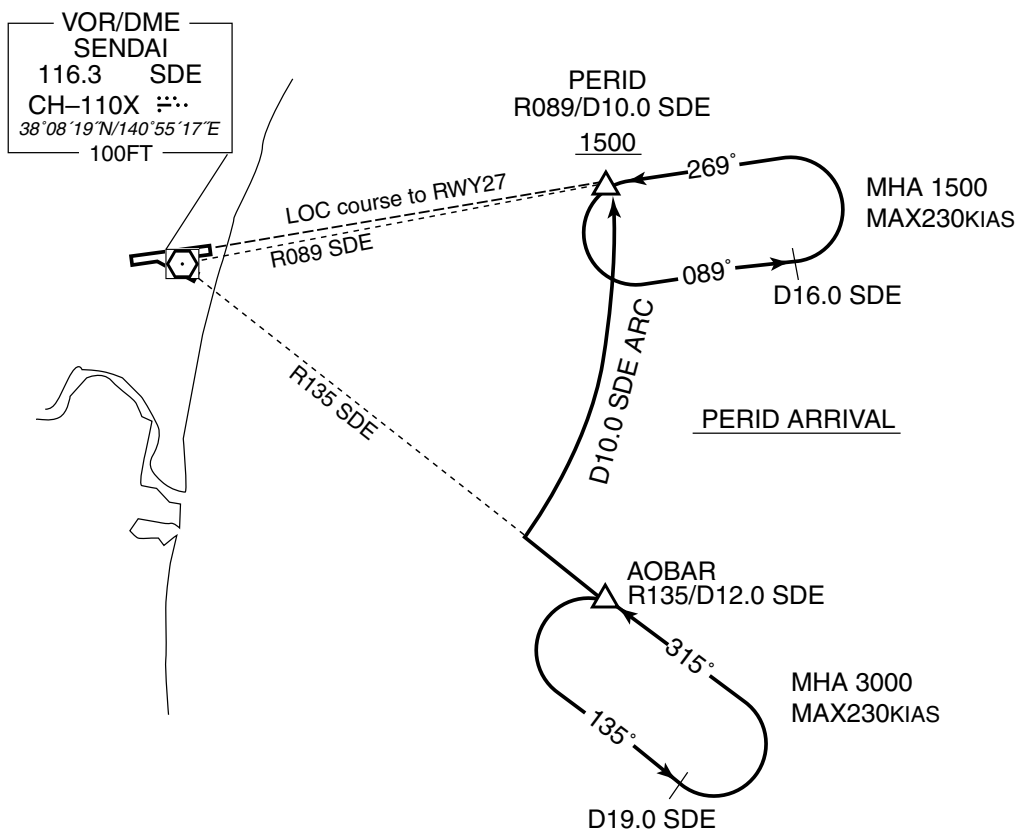
RJSS / SENDAI

STAR

PERID ARRIVAL

From over AOBAR, via SDE R135 to intercept and proceed via SDE 10.0DME counterclockwise ARC to PERID.

Cross PERID at or above 1500FT.



STANDARD ARRIVAL CHART - INSTRUMENT

RJSS / SENDAI

RNAV STAR RWY09

LANCE WEST ARRIVAL

RNAV 1

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

VAR 8°W (2014)

VOR/DME
SENDAI
116.3 SDE
CH-110X
38°08'19"N/140°55'17"E
100FT

LANCE WEST ARRIVAL

From LANCE at or above 11000FT, to QUAIL, to RIBON at or above 6000FT, to SHIPS at or above 4000FT.

| | |
|-----------------------|---|
| Critical DME | SDE : 5.0NM to QUAIL – 4.0NM to QUAIL 2.0NM to QUAIL – QUAIL HPE : 1.0NM to QUAIL – QUAIL |
| DME GAP | QUAIL – SHIPS |
| 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 | LANCE | — | — | -7.8 | — | — | +11000 | — | — | RNAV1 |
| 002 | TF | QUAIL | — | 127 (119.4) | -7.8 | 5.0 | — | — | -250 | — | RNAV1 |
| 003 | TF | RIBON | — | 092 (084.5) | -7.8 | 5.0 | — | +6000 | — | — | RNAV1 |
| 004 | TF | SHIPS | — | 002 (354.6) | -7.8 | 7.8 | — | +4000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJSS / SENDAI

RNAV STAR RWY09

OWLET WEST ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W (2014)

OWLET WEST ARRIVAL

From OWLET at or above 13000FT, to PRINK at or above 8000FT, to QUIST, to RIBON at or above 6000FT, to SHIPS at or above 4000FT.

| 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 | OWLET | — | — | -7.8 | — | — | +13000 | — | — | Basic RNP1 |
| 002 | TF | PRINK | — | 092 (084.4) | -7.8 | 5.3 | — | +8000 | — | — | Basic RNP1 |
| 003 | TF | QUIST | — | 092 (084.5) | -7.8 | 5.2 | — | — | -250 | — | Basic RNP1 |
| 004 | TF | RIBON | — | 002 (354.6) | -7.8 | 5.0 | — | +6000 | — | — | Basic RNP1 |
| 005 | TF | SHIPS | — | 002 (354.6) | -7.8 | 7.8 | — | +4000 | — | — | Basic RNP1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJSS / SENDAI

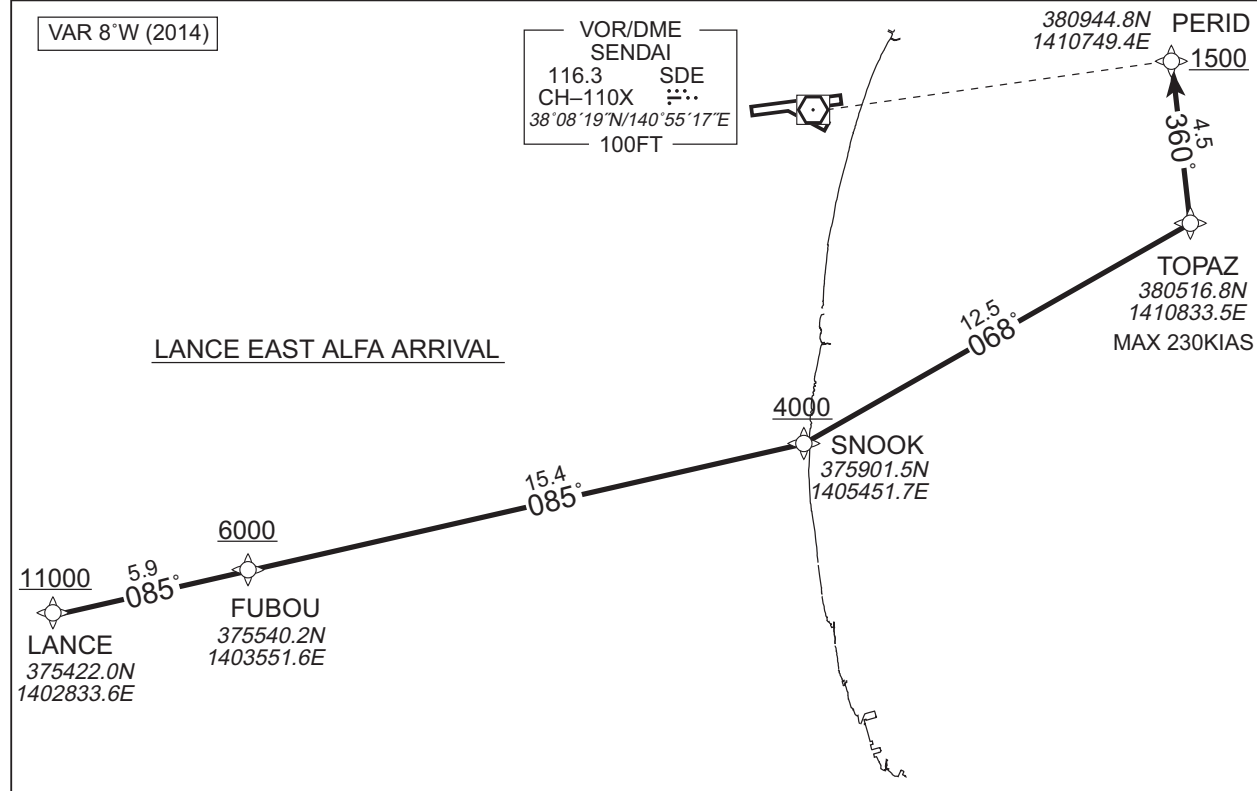
RNAV STAR RWY27

LANCE EAST ALFA ARRIVAL

RNAV 1

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

2) RADAR service required.

**LANCE EAST ALFA ARRIVAL**

From LANCE at or above 11000FT, to FUBOU at or above 6000FT, to SNOOK at or above 4000FT, to TOPAZ, to PERID at or above 1500FT.

| | |
|------------------------|--|
| Critical DME | MXT : 3.0NM to SNOOK - 8.0NM to TOPAZ |
| | SDE : 11.0NM to TOPAZ - PERID |
| | IXE : 3.0NM to SNOOK - 12.0NM to TOPAZ |
| DME GAP | LANCE - 3.0NM to SNOOK |
| Inappropriate Nav aids | 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 | LANCE | — | — | -7.8 | — | — | +11000 | — | — | RNAV1 |
| 002 | TF | FUBOU | — | 085 (077.2) | -7.8 | 5.9 | — | +6000 | — | — | RNAV1 |
| 003 | TF | SNOOK | — | 085 (077.3) | -7.8 | 15.4 | — | +4000 | — | — | RNAV1 |
| 004 | TF | TOPAZ | — | 068 (059.8) | -7.8 | 12.5 | — | — | -230 | — | RNAV1 |
| 005 | TF | PERID | — | 360 (352.6) | -7.8 | 4.5 | — | +1500 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

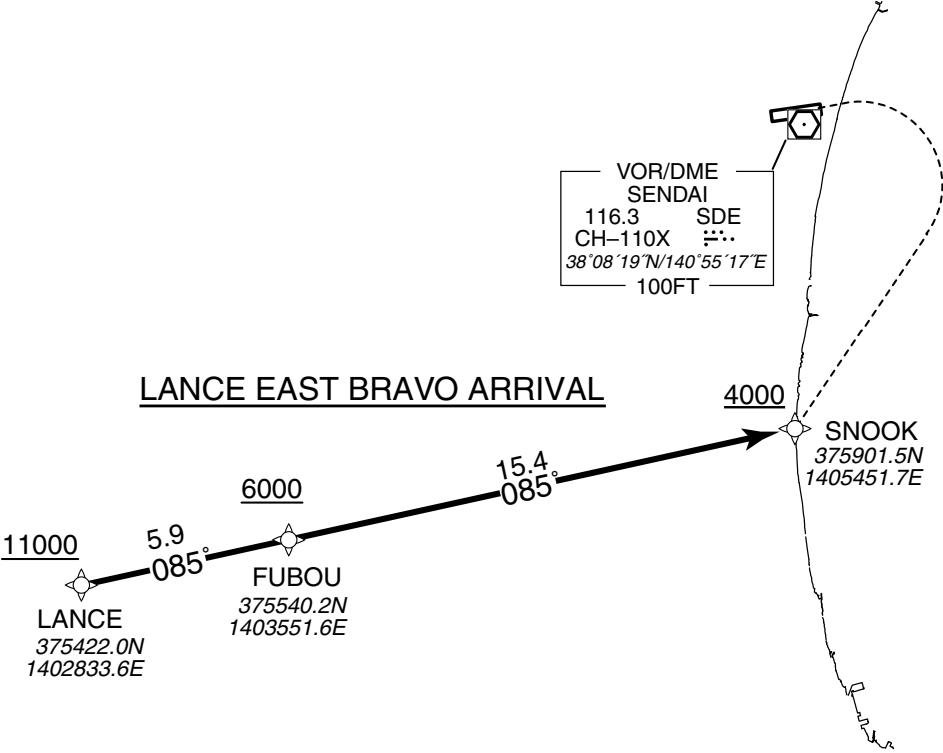
RJSS / SENDAI

RNAV STAR RWY27

| LANCE EAST BRAVO ARRIVAL | Basic RNP1 |
|--------------------------|------------|
|--------------------------|------------|

Note GNSS required.

VAR 8°W (2014)



LANCE EAST BRAVO ARRIVAL

From LANCE at or above 11000FT, to FUBOU at or above 6000FT, to SNOOK at or above 4000FT.

| 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 | LANCE | — | — | -7.8 | — | — | +11000 | — | — | Basic RNP1 |
| 002 | TF | FUBOU | — | 085 (077.2) | -7.8 | 5.9 | — | +6000 | — | — | Basic RNP1 |
| 003 | TF | SNOOK | — | 085 (077.3) | -7.8 | 15.4 | — | +4000 | — | — | Basic RNP1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJSS / SENDAI

RNAV STAR RWY27

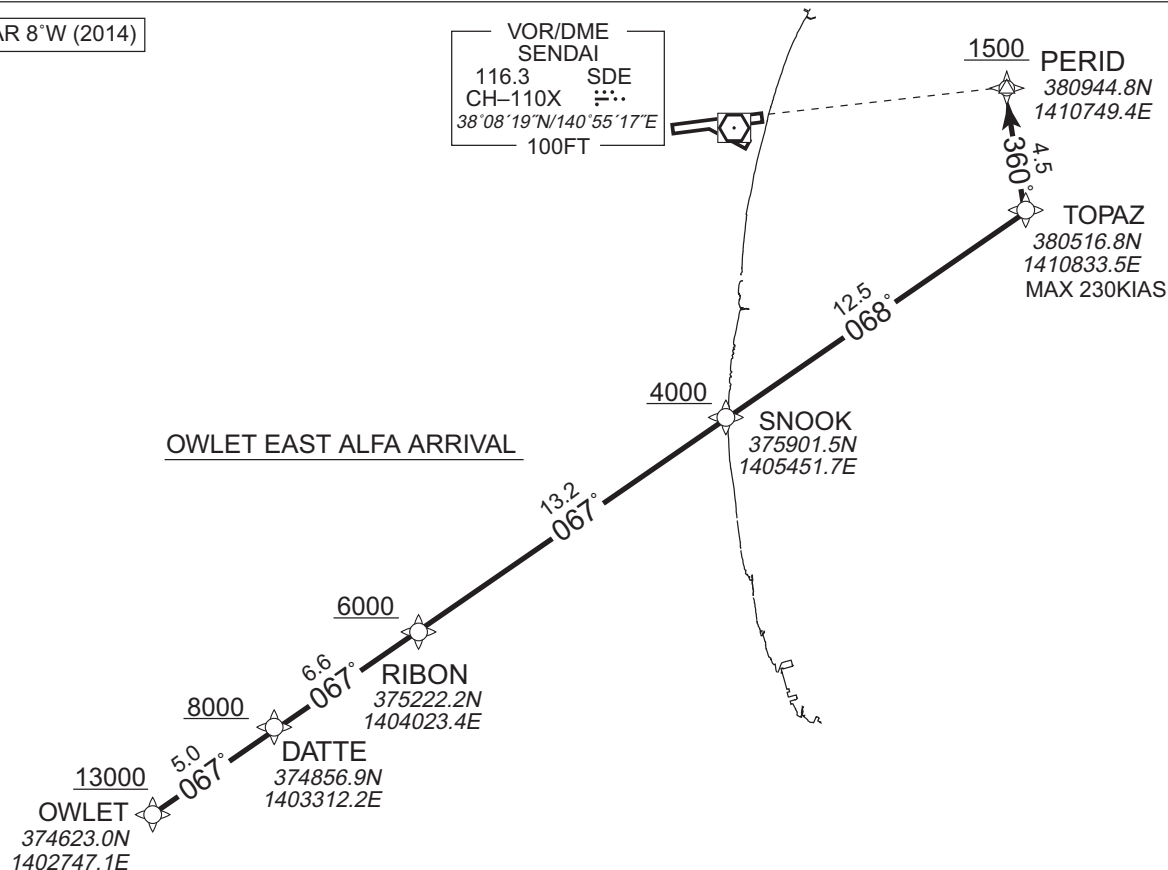
OWLET EAST ALFA ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8°W (2014)



OWLET EAST ALFA ARRIVAL

From OWLET at or above 13000FT, to DATTE at or above 8000FT, to RIBON at or above 6000FT, to SNOOK at or above 4000FT, to TOPAZ, to PERID at or above 1500FT.

| | |
|------------------------|--|
| Critical DME | MXT : 2.0NM to SNOOK – 8.0NM to TOPAZ |
| | SDE : 11.0NM to TOPAZ – PERID |
| | IXE : 2.0NM to SNOOK – SNOOK |
| DME GAP | DATTE – 2.0NM to SNOOK |
| Inappropriate Nav aids | 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 | OWLET | — | — | -7.8 | — | — | +13000 | — | — | RNAV1 |
| 002 | TF | DATTE | — | 067 (059.0) | -7.8 | 5.0 | — | +8000 | — | — | RNAV1 |
| 003 | TF | RIBON | — | 067 (058.9) | -7.8 | 6.6 | — | +6000 | — | — | RNAV1 |
| 004 | TF | SNOOK | — | 067 (059.7) | -7.8 | 13.2 | — | +4000 | — | — | RNAV1 |
| 005 | TF | TOPAZ | — | 068 (059.8) | -7.8 | 12.5 | — | — | -230 | — | RNAV1 |
| 006 | TF | PERID | — | 360 (352.6) | -7.8 | 4.5 | — | +1500 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJSS / SENDAI

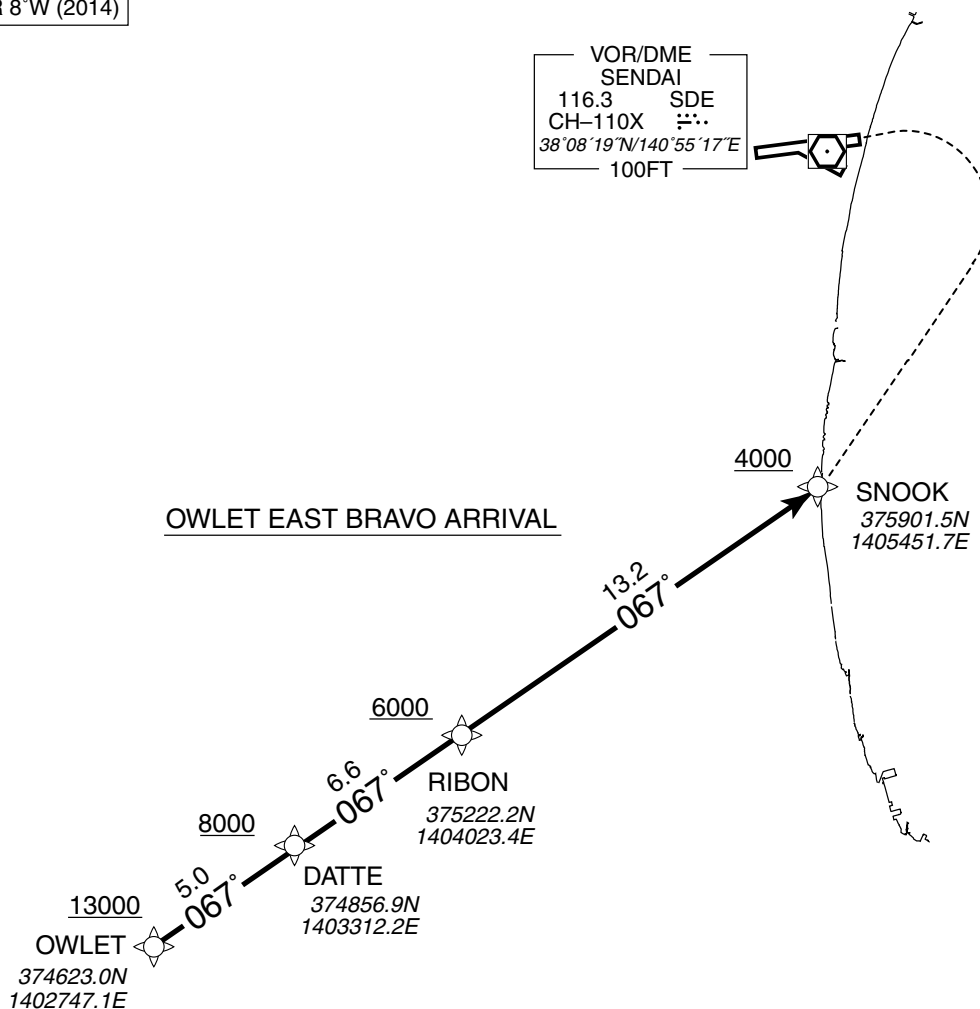
RNAV STAR RWY27

OWLET EAST BRAVO ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W (2014)



OWLET EAST BRAVO ARRIVAL

From OWLET at or above 13000FT, to DATTE at or above 8000FT, to RIBON at or above 6000FT, to SNOOK at or above 4000FT.

| 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 | OWLET | — | — | -7.8 | — | — | +13000 | — | — | Basic RNP1 |
| 002 | TF | DATTE | — | 067 (059.0) | -7.8 | 5.0 | — | +8000 | — | — | Basic RNP1 |
| 003 | TF | RIBON | — | 067 (058.9) | -7.8 | 6.6 | — | +6000 | — | — | Basic RNP1 |
| 004 | TF | SNOOK | — | 067 (059.7) | -7.8 | 13.2 | — | +4000 | — | — | Basic RNP1 |

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INSTRUMENT APPROACH CHART

RJSS / SENDAI

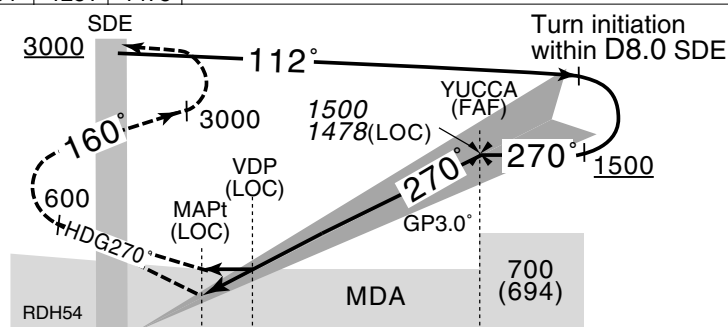
ILS Y or LOC Y RWY27



MISSED APPROACH

Climb to 6000 FT on HDG 270°,
turn left, via SDE R160 to 3000 FT,
turn left, direct to SDE
VOR/DME and hold.
Contact SENDAI APP.

Timing not authorized for defining the MAPt.



DME to ISD

NM to THR

0.6

0.5

1.0

0.8

4.6

4.4

Missed APCH climb gradient MNM 4.0%.

| MINIMA | | THR elev. 15 | | AD elev. 6 | | |
|--------|-----------|--------------|-----------|-------------|-----------|------|
| CAT | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 215 (200) | 550 | 320 (314) | 900 | 530 (524) | 1600 |
| B | | | | 1000 | | 2400 |
| C | | | | | 1400 | |
| D | | | | | | |

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

RJSS / SENDAI

VOR RWY27



MISSED APPROACH

Turn left, climb via SDE R160 to 3000FT,
turn left, direct to SDE VOR/DME
and hold.
Contact SENDAI APP.

Timing not authorized for defining the MAPt.



| MINIMA | | THR elev. 15 | AD elev. 6 | |
|--------|-----------|--------------|------------|------|
| CAT | | | CIRCLING | |
| | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 390 (384) | 900 | 530 (524) | 1600 |
| B | | 1000 | | 2400 |
| C | | | 1400 | |

INSTRUMENT APPROACH CHART

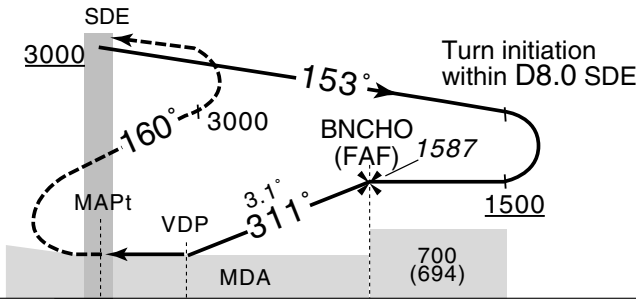
RJSS / SENDAIVOR RWY30



MISSED APPROACH

Turn left, climb via SDE R160 to 3000FT,
turn left, direct to SDE VOR/DME
and hold.
Contact SENDAI APP.

Timing not authorized for defining the MAPt.

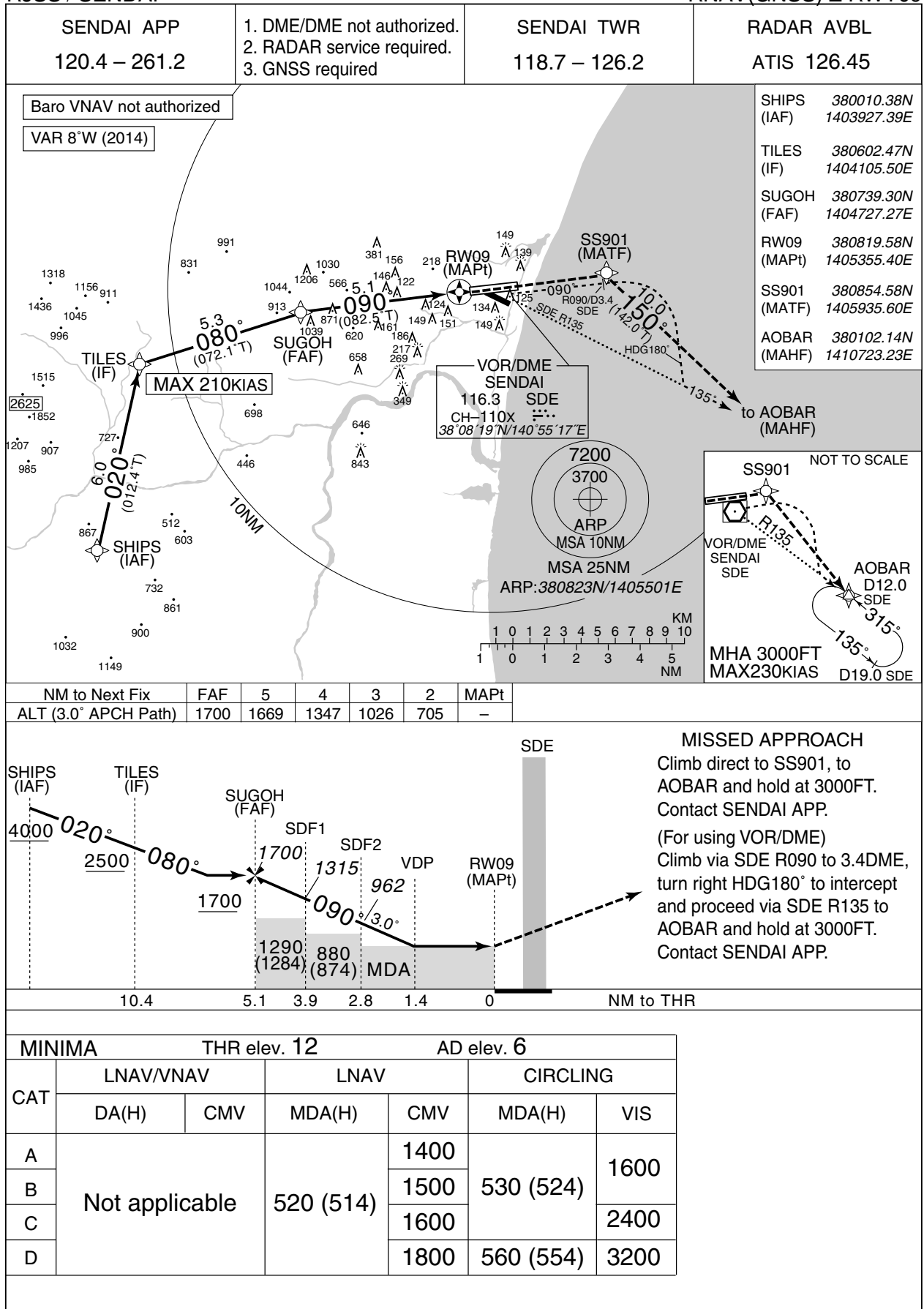


| MINIMA | | THR elev. 5 | AD elev. 6 | |
|--------|-----------|-------------|------------|------|
| CAT | | | CIRCLING | |
| | MDA(H) | CMV | MDA(H) | VIS |
| A | 410 (404) | 1500 | 530 (524) | 1600 |
| B | | 1800 | | 2400 |
| C | | | | |
| D | — | — | — | — |

INSTRUMENT APPROACH CHART

RJSS / SENDAI

RNAV(GNSS) Z RWY09



INSTRUMENT APPROACH CHART

RJSS / SENDAI

RNAV(RNP) Y RWY09

| | | | |
|-----------------------------|---------------|-----------------------------|---------------------------|
| SENDAI APP 120.4 – 261.2 | GNSS required | SENDAI TWR 118.7 – 126.2 | RADAR AVBL ATIS 126.45 |
|-----------------------------|---------------|-----------------------------|---------------------------|

For uncompensated Baro-VNAV system, procedure not authorized below -10°C / above 45°C



| MINIMA | | THR elev. 12 | AD elev. 6 |
|--------|-----------|--------------|------------|
| CAT | RNP 0.30 | | |
| | DA(H) | CMV | |
| A | — | — | |
| B | — | — | |
| C | 312 (300) | 1400 | |
| D | | 1600 | |

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJSS / SENDAI

RNAV(RNP) Y RWY09

RNAV(RNP) Y RWY09Coding Table

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/RDH (°/FT) | RNP Value |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|-----------|
| 001 | IF | SHIPS | — | — | -7.8 | — | — | +4000 | — | — | — |
| 002 | TF | TILES | — | 020 (012.4) | -7.8 | 6.0 | — | +2500 | — | — | 1.0 |
| 003 | TF | SUGOH | — | 080 (072.1) | -7.8 | 5.3 | — | 1700 | — | — | 1.0 |
| 004 | TF | RW09 | Y | 090 (082.5) | -7.8 | 5.1 | — | 62 | — | -3.00/50 | 0.3 |
| 005 | TF | SS901 | — | 090 (082.5) | -7.8 | 4.5 | — | — | — | — | 1.0 |
| 006 | TF | AOBAR | — | 150 (142.0) | -7.8 | 10.0 | — | 3000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| SHIPS | 380010.38N/1403927.39E |
| TILES | 380602.47N/1404105.50E |
| SUGOH | 380739.30N/1404727.27E |
| RW09 | 380819.58N/1405355.40E |
| SS901 | 380854.58N/1405935.60E |
| AOBAR | 380102.14N/1410723.23E |

INSTRUMENT APPROACH CHART

RJSS / SENDAI

RNAV(RNP) RWY27

| | | | |
|-----------------------------|----------------------|-----------------------------|---------------------------|
| SENDAI APP 120.4 – 261.2 | GNSS and RF required | SENDAI TWR 118.7 – 126.2 | RADAR AVBL ATIS 126.45 |
|-----------------------------|----------------------|-----------------------------|---------------------------|

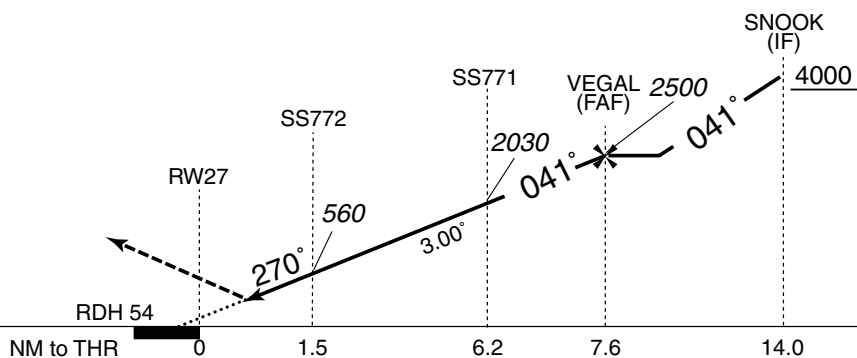
For uncompensated Baro-VNAV system, procedure not authorized below -10°C / above 45°C



MISSED APPROACH

From RW27 on track 270°,
at or above 600FT turn left,
direct to SNOOK and hold at
4000FT.

Contact SENDAI APP.



MINIMA THR elev. 15 AD elev. 6

| CAT | RNP 0.30 | |
|-----|-----------|---------|
| | DA(H) | RVR/CMV |
| A | — | — |
| B | — | — |
| C | 315 (300) | 1000 |
| D | | 1400 |

RNP AR**Special Authorization Required**

* Missed APCH climb gradient MNM 4.0%

INSTRUMENT APPROACH CHART

RJSS / SENDAI

RNAV(RNP) RWY27

RNAV(RNP) RWY27Coding Table

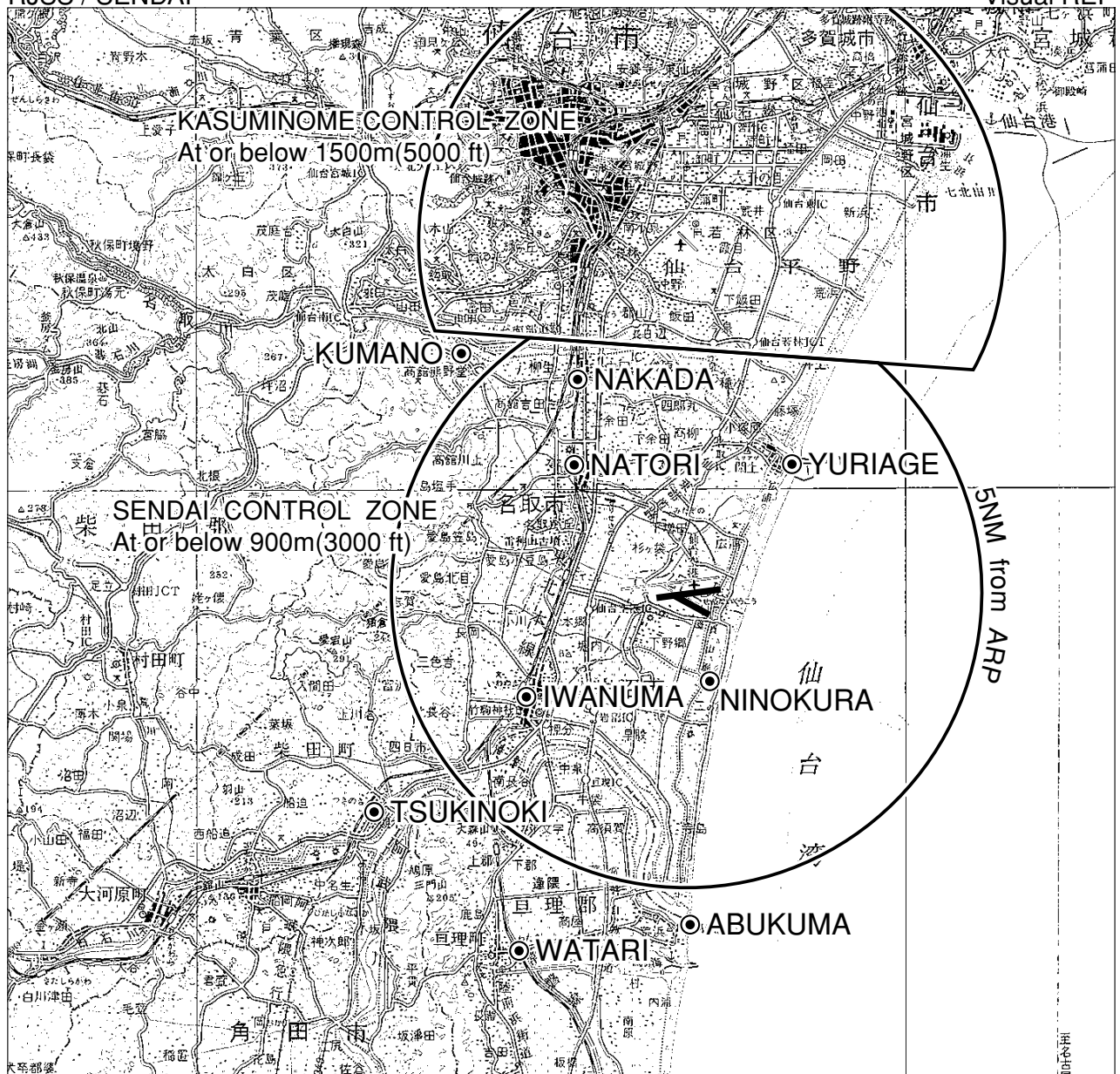
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|-----------|
| 001 | IF | SNOOK | — | — | -7.8 | — | — | +4000 | — | — | — |
| 002 | TF | VEGAL | — | 041 (033.3) | -7.8 | 6.4 | — | 2500 | — | — | 1.0 |
| 003 | TF | SS771 | — | 041 (033.4) | -7.8 | 1.5 | — | 2030 | -165 | -3.00 | 0.3 |
| 004 | RF Center: SSRF1 R=2.02NM | SS772 | — | — | -7.8 | 4.6 | L | 560 | — | -3.00 | 0.3 |
| 005 | TF | RW27 | Y | 270 (262.6) | -7.8 | 1.5 | — | 69 | — | -3.00/54 | 0.3 |
| 006 | FA | — | — | 270 (262.6) | -7.8 | — | — | +600 | — | — | 1.0 |
| 007 | DF | SNOOK | — | — | -7.8 | — | L | 4000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| SNOOK | 375901.53N/1405451.66E | SSRF1 | 380643.74N/1405813.69E |
| VEGAL | 380422.75N/1405919.92E | | |
| SS771 | 380536.78N/1410021.86E | | |
| SS772 | 380844.14N/1405753.87E | | |
| RW27 | 380832.18N/1405557.56E | | |

RJSS / SENDAI

Visual REP



RJSS / SENDAI

Visual REP

| Call sign | BRG / DIST from ARP | Remarks |
|-------------------|---------------------|--------------------------------------|
| 槻 木 Tsukinoki | 242° / 6.2NM | JR槻木駅 Station |
| 岩 沼 Iwanuma | 244° / 3.0NM | JR岩沼駅 Station |
| 亘 理 Watari | 212° / 6.6NM | JR亘理駅 Station |
| 阿 武 隈 Abukuma | 186° / 5.6NM | 阿武隈川河口 River-mouth of the Abukuma |
| 二 の 倉 Ninokura | 169° / 1.7NM | 県南浄化センター Sewage disposal center |
| 関 上 Yuriage | 054° / 3.0NM | 名取川河口 River-mouth of the Natori |
| 中 田 Nakada | 343° / 3.8NM | JR南仙台駅 Station |
| 名 取 Natori | 329° / 2.6NM | JR名取駅 Station |
| 熊 野 Kumano | 327° / 5.1NM | 熊野神社 the Kumano Shrine |

注：有視界飛行方式により霞目管制圏から仙台管制圏へ進入しようとする航空機は、仙台管制圏に入圏する前に仙台タワーへ通報すること。

NOTE：When any VFR flight enters SENDAI CTR directly via KASUMINOME CTR, the pilot shall report to "SENDAI TWR" before entering SENDAI CTR.

注：VFR機とIFR機の航行の安全のため、仙台進入管制区のうち、仙台空港から15NM以内の地域をVFRで航行する場合は、仙台TCAと積極的にコンタクトすること。

NOTE：In order to ensure the safety operations for both VFR and IFR aircraft, VFR aircraft should contact SENDAI TCA positively when the flight includes SENDAI Approach Control Area, within 15 miles from Sendai Airport.



| ① | ② | ③ | ④ |
|----------------------|----------------------|----------------------|----------------------|
| Angle 3.0° | Angle 3.0° | Angle 3.0° | Angle 3.1° |
| MEHT 22.5m (73.8 ft) | MEHT 20.0m (65.6 ft) | MEHT 13.6m (44.5 ft) | MEHT 13.6m (44.5 ft) |
| 456m FM THR | 439m FM THR | 306m FM THR | 262m FM THR |

RJSS / SENDAI

Minimum Vectoring Altitude CHART

