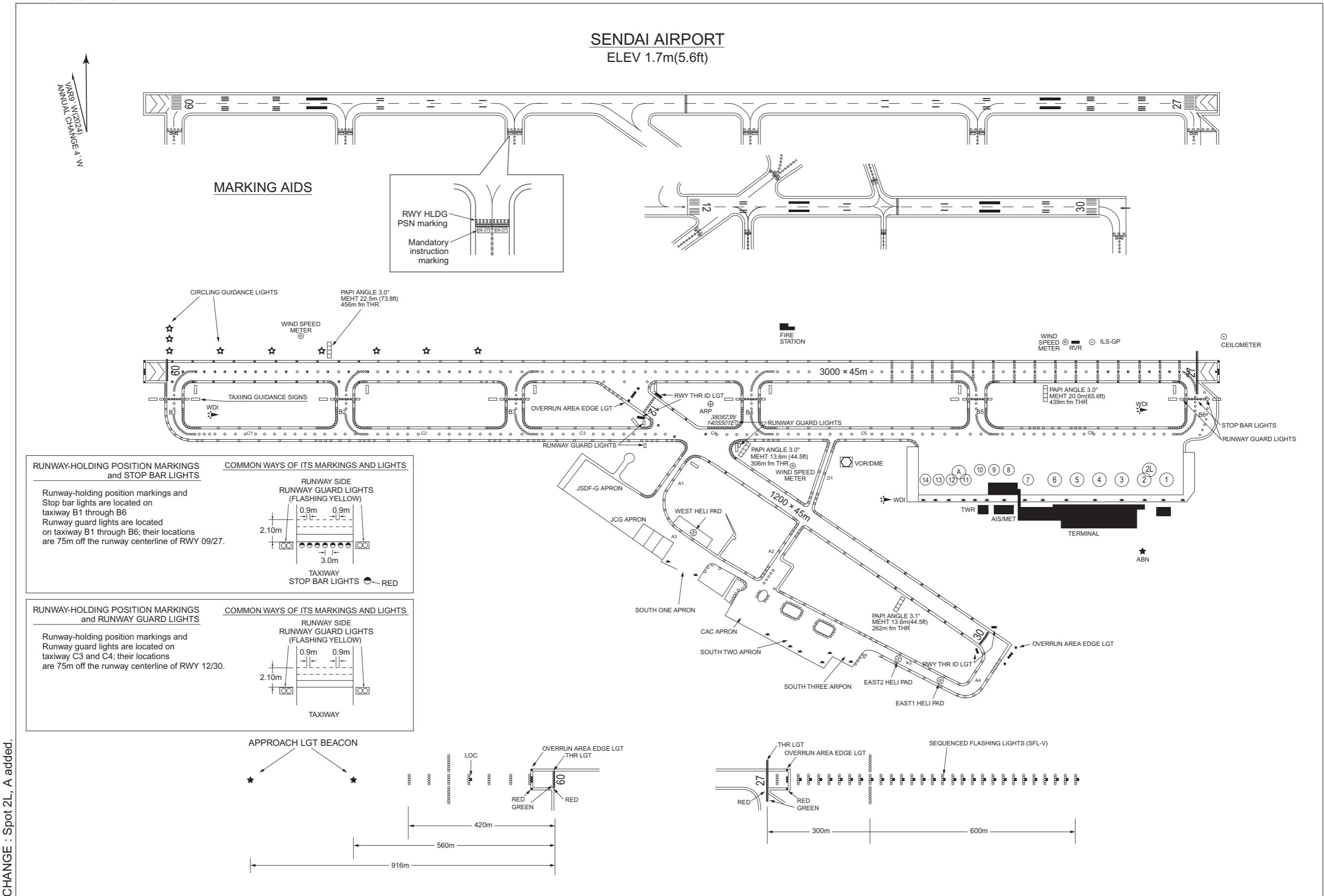
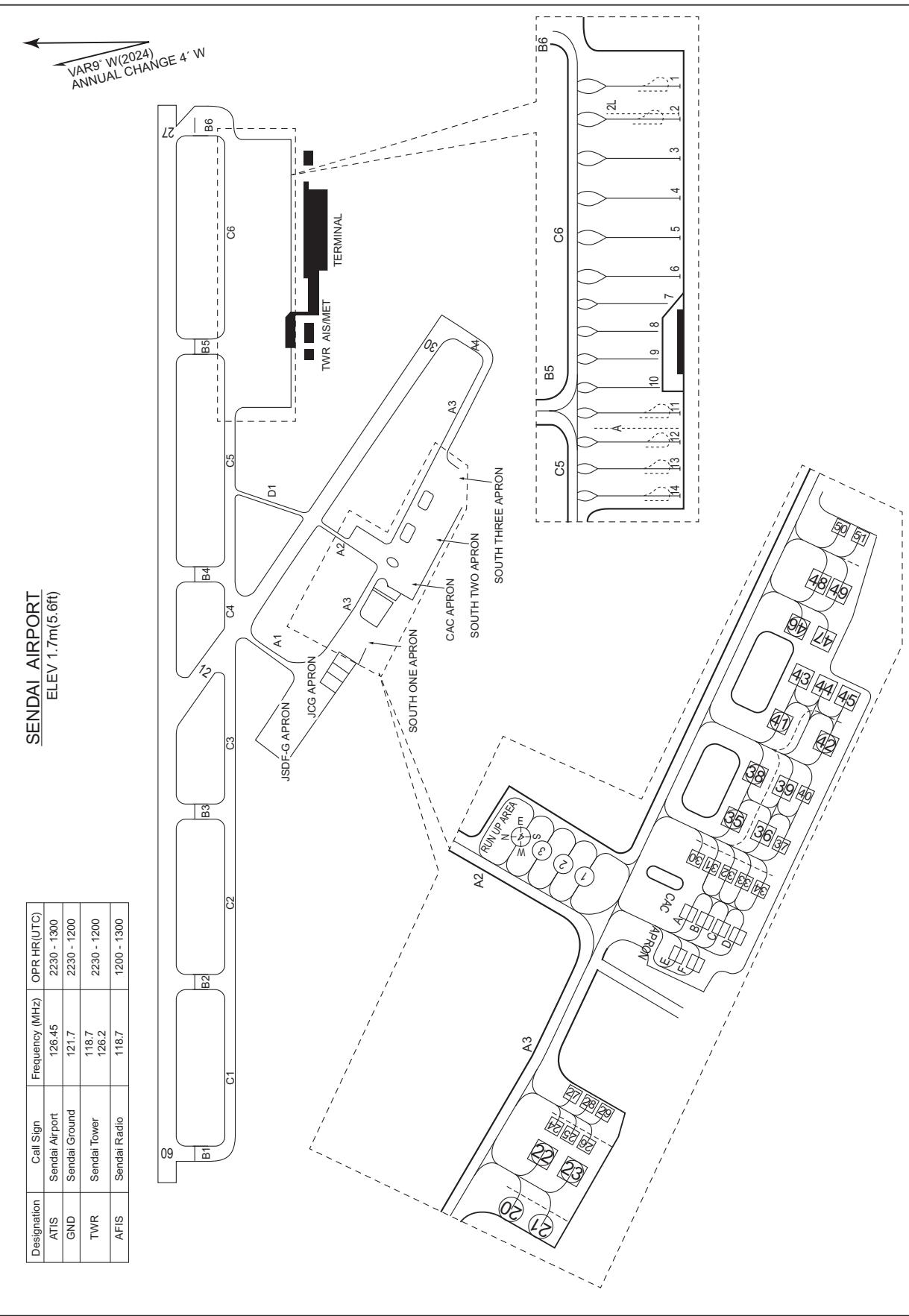


AERODROME CHART



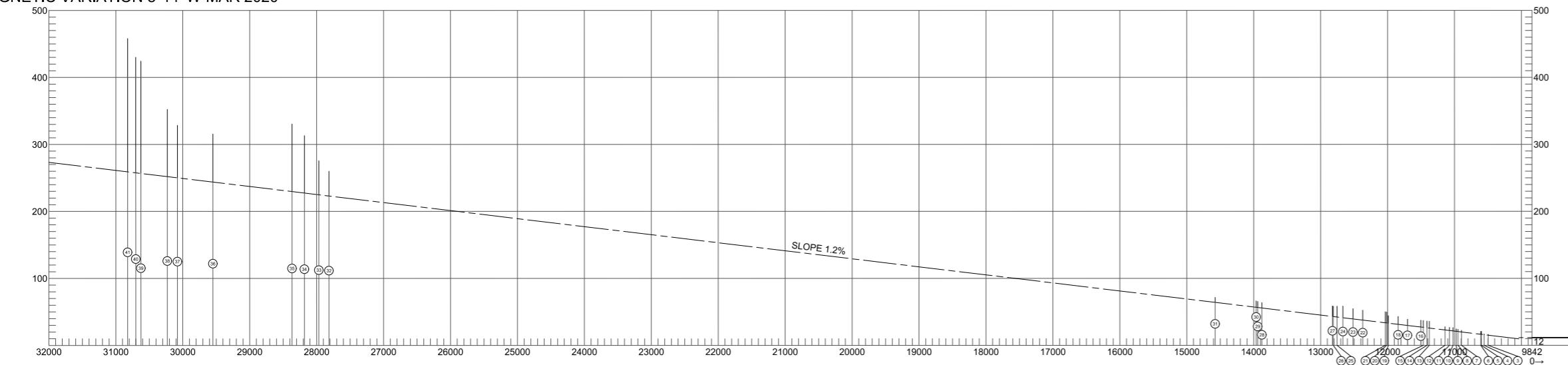
CHANGE : Spot 2L, A added.



AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)

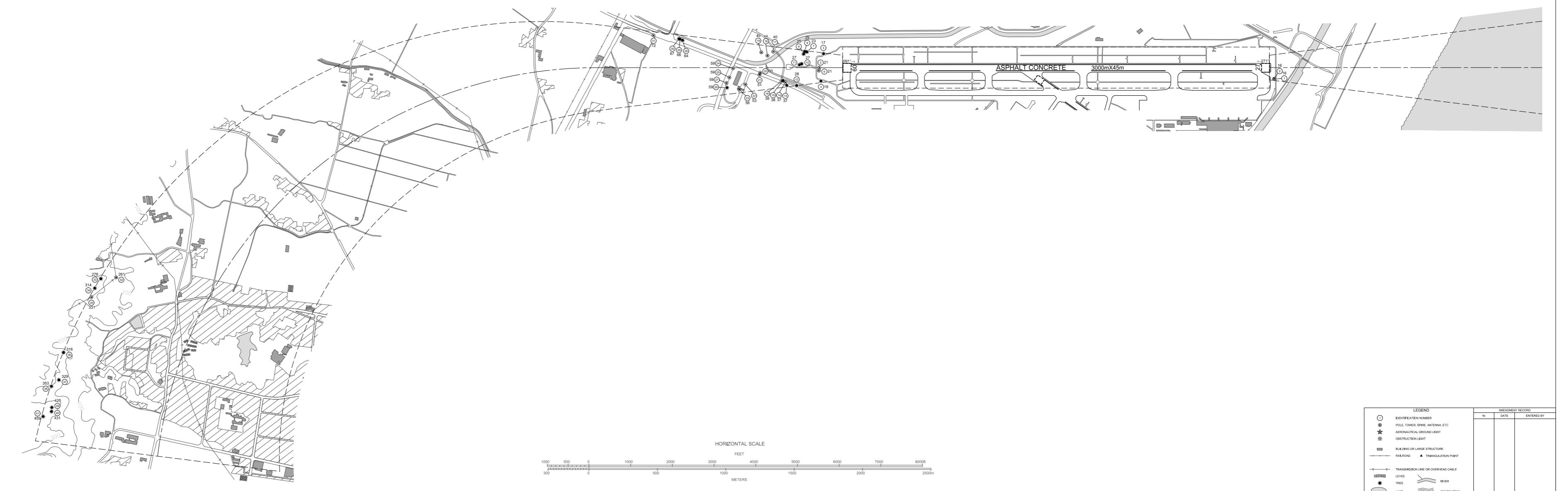
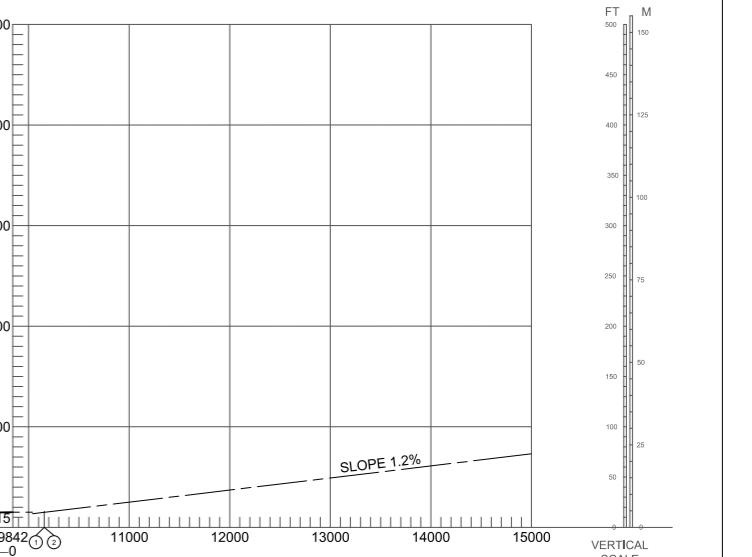
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 8°14' W-MAR 2020



SENDAI AIRPORT  
RWY : 09/27

|  |        |
|--|--------|
| DECLARED DISTANCES                       |        |
| RWY 09                                   | RWY 27 |
| 3000m TAKE OFF RUN AVAILABLE             | 3000m  |
| 3000m TAKE OFF DISTANCE AVAILABLE        | 3000m  |
| 3000m ACCELERATE STOP DISTANCE AVAILABLE | 3000m  |
| 3000m LANDING DISTANCE AVAILABLE         | 3000m  |



## AERODROME OBSTACLE CHART-ICAO

## TYPE B

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



CHANGE: Update

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.

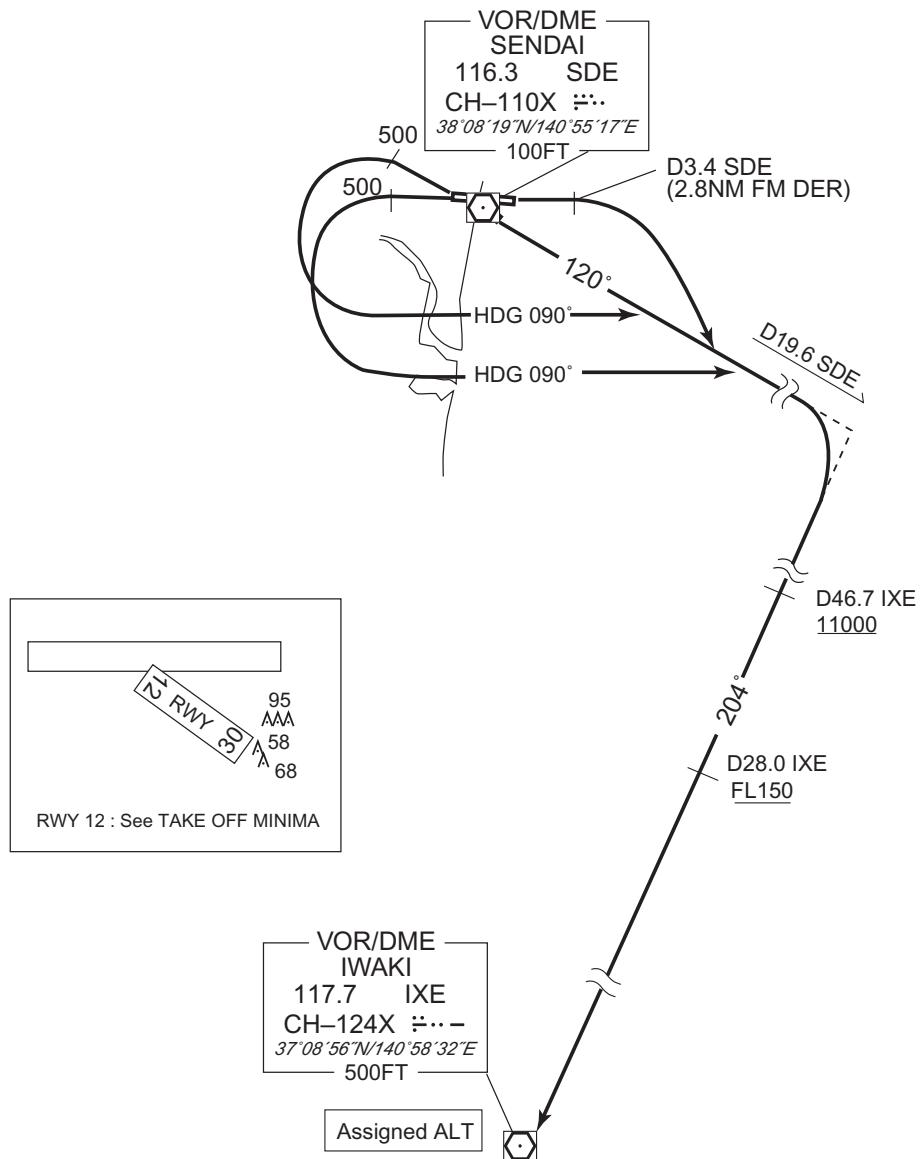
RWY 27 : 5.0% climb gradient required up to 1000FT.

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 : Description of PROC name.



## 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.

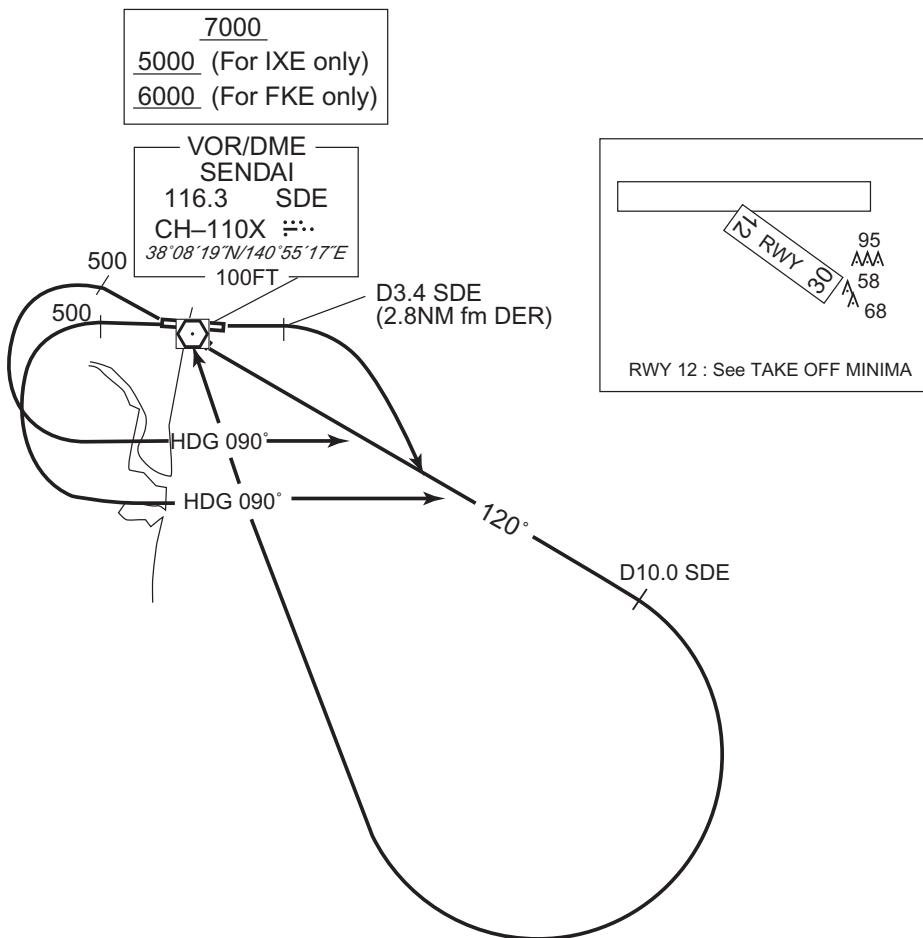
RWY 27 : 5.0% climb gradient required up to 1000FT.

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.

CHANGE : Description of PROC name.



STANDARD DEPARTURE CHART - INSTRUMENT

| RJSS / SENDAI   | RNAV SID and TRANSITION  |
|---|--|
|   | DERBY FOUR DEPARTURE<br>YAMAGATA TRANSITION / NIIGATA TRANSITION /<br>RIKYU NORTH TRANSITION / SASAP TRANSITION  |
| RNP1  |  |
| Note GNSS required.                                   |  |
| CHANGE : Navigation Specification(Basic RNP1 → RNP1). |  |
|   | <p><b>DERBY FOUR DEPARTURE</b></p> <p>RWY09 : Climb on HDG091° at or above 500FT, direct to <u>SS901</u>, turn right direct to ANEMO, to EBOSI, to DERBY at or above 9000FT.</p> <p>RWY27 : Climb on HDG271° at or above 500FT, direct to <u>SS701</u>, turn left direct to EBOSI, to DERBY at or above 9000FT.</p> <p>NOTE RWY09: 5.0% climb gradient required up to 500FT.<br/>OBST ALT 62FT located at 0.2NM 103° FM end of RWY09.</p> <p>RWY27: 5.9% climb gradient required up to 1300FT.<br/>OBST ALT 1181FT located at 4.6NM 285° FM end of RWY27.</p> <p><b>YAMAGATA TRANSITION</b><br/>From DERBY at or above 9000FT, to YTE.</p> <p><b>NIIGATA TRANSITION</b><br/>From DERBY at or above 9000FT, to GTC.</p> <p><b>RIKYU NORTH TRANSITION</b><br/>From DERBY at or above 9000FT, to RIKYU.</p> <p><b>SASAP TRANSITION</b><br/>From DERBY at or above 9000FT, to SASAP.</p> |

## STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID and TRANSITION

DERBY FOUR 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              | -                   | -        | 091 (082.5)   | -8.3               | -             | -              | +500          | -            | -              | RNP1                     |
| 002           | DF              | SS901               | Y        | -             | -8.3               | -             | -              | -             | -            | -              | RNP1                     |
| 003           | DF              | ANEMO               | -        | -             | -8.3               | -             | R              | -             | -            | -              | RNP1                     |
| 004           | TF              | EBOSI               | -        | 285 (276.4)   | -8.3               | 17.6          | -              | -             | -            | -              | RNP1                     |
| 005           | TF              | DERBY               | -        | 276 (268.1)   | -8.3               | 7.7           | -              | +9000         | -            | -              | RNP1                     |

## 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              | -                   | -        | 271 (262.5)   | -8.3               | -             | -              | +500          | -            | -              | RNP1                     |
| 002           | DF              | SS701               | Y        | -             | -8.3               | -             | -              | -             | -            | -              | RNP1                     |
| 003           | DF              | EBOSI               | -        | -             | -8.3               | -             | L              | -             | -            | -              | RNP1                     |
| 004           | TF              | DERBY               | -        | 276 (268.1)   | -8.3               | 7.7           | -              | +9000         | -            | -              | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID and TRANSITION

YAMAGATA 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               | -        | -              | -8.3               | -             | -              | +9000         | -            | -              | RNP1                     |
| 002           | TF              | YTE                 | -        | 356<br>(347.9) | -8.3               | 23.7          | -              | -             | -            | -              | RNP1                     |

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               | -        | -              | -8.3               | -             | -              | +9000         | -            | -              | RNP1                     |
| 002           | TF              | GTC                 | -        | 276<br>(268.0) | -8.3               | 63.9          | -              | -             | -            | -              | RNP1                     |

RIKYU NORTH 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               | -        | -              | -8.3               | -             | -              | +9000         | -            | -              | RNP1                     |
| 002           | TF              | RIKYU               | -        | 189<br>(180.5) | -8.3               | 26.8          | -              | -             | -            | -              | RNP1                     |

SASAP 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               | -        | -              | -8.3               | -             | -              | +9000         | -            | -              | RNP1                     |
| 002           | TF              | SASAP               | -        | 188<br>(179.4) | -8.3               | 49.3          | -              | -             | -            | -              | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

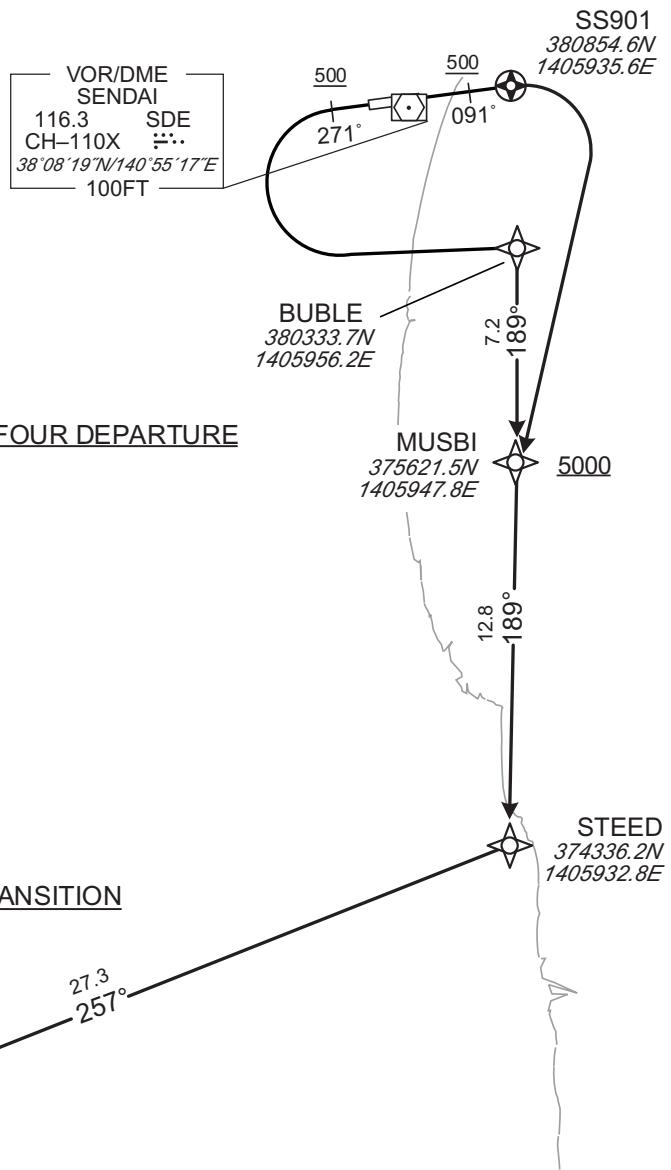
RNAV SID and TRANSITION

STEED FOUR DEPARTURE / RIKYU TRANSITION

RNP1

Note GNSS required.

VAR 8°W



## STEED FOUR DEPARTURE

RWY09 : Climb on HDG091° at or above 500FT, direct to SS901, turn right direct to MUSBI at or above 5000FT, to STEED.

RWY27 : Climb on HDG271° at or above 500FT, turn left direct to BUBLE, to MUSBI at or above 5000FT, to STEED.

NOTE RWY09: 5.0% climb gradient required up to 500FT.

OBST ALT 62FT located at 0.2NM 103° 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.

## RIKYU TRANSITION

From STEED, to RIKYU.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID and TRANSITION

STEED FOUR 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              | -                   | -        | 091 (082.5)   | -8.3               | -             | -              | +500          | -            | -              | RNP1                     |
| 002           | DF              | SS901               | Y        | -             | -8.3               | -             | -              | -             | -            | -              | RNP1                     |
| 003           | DF              | MUSBI               | -        | -             | -8.3               | -             | R              | +5000         | -            | -              | RNP1                     |
| 004           | TF              | STEED               | -        | 189 (180.9)   | -8.3               | 12.8          | -              | -             | -            | -              | RNP1                     |

## 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              | -                   | -        | 271 (262.5)   | -8.3               | -             | -              | +500          | -            | -              | RNP1                     |
| 002           | DF              | BUBLE               | -        | -             | -8.3               | -             | L              | -             | -            | -              | RNP1                     |
| 003           | TF              | MUSBI               | -        | 189 (180.9)   | -8.3               | 7.2           | -              | +5000         | -            | -              | RNP1                     |
| 004           | TF              | STEED               | -        | 189 (180.9)   | -8.3               | 12.8          | -              | -             | -            | -              | RNP1                     |

## 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               | -        | -             | -8.3               | -             | -              | -             | -            | -              | RNP1                     |
| 002           | TF              | RIKYU               | -        | 257 (248.4)   | -8.3               | 27.3          | -              | -             | -            | -              | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

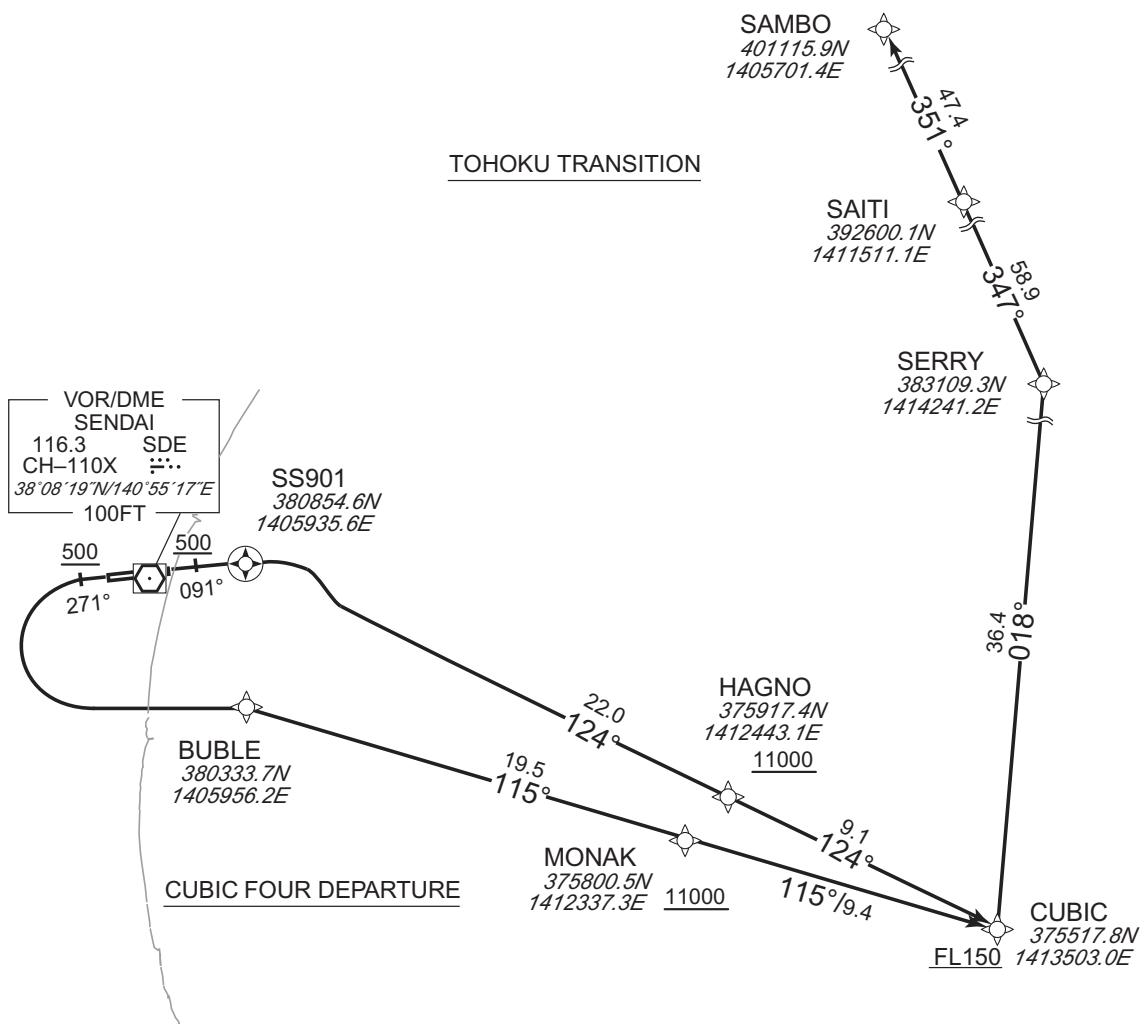
RNAV SID and TRANSITION

CUBIC FOUR DEPARTURE / TOHOKU TRANSITION

RNP1

Note GNSS required.

VAR 8°W

CUBIC FOUR DEPARTURE

RWY09 : Climb on HDG091° at or above 500FT, direct to SS901, to HAGNO at or above 11000FT, to CUBIC at or above FL150.

RWY27 : Climb on HDG271° at or above 500FT, turn left direct to BUBLE, to MONAK at or above 11000FT, to CUBIC at or above FL150.

NOTE RWY09: 5.0% climb gradient required up to 500FT.

OBST ALT 62FT located at 0.2NM 103° 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.

TOHOKU TRANSITION

From CUBIC at or above FL150, to SERRY, to SAITI, to SAMBO.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID and TRANSITION

CUBIC FOUR 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              | -                   | -        | 091 (082.5)   | -8.3               | -             | -              | +500          | -            | -              | RNP1                     |
| 002           | DF              | SS901               | Y        | -             | -8.3               | -             | -              | -             | -            | -              | RNP1                     |
| 003           | TF              | HAGNO               | -        | 124 (115.8)   | -8.3               | 22.0          | -              | +11000        | -            | -              | RNP1                     |
| 004           | TF              | CUBIC               | -        | 124 (116.1)   | -8.3               | 9.1           | -              | +FL150        | -            | -              | RNP1                     |

## 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              | -                   | -        | 271 (262.5)   | -8.3               | -             | -              | +500          | -            | -              | RNP1                     |
| 002           | DF              | BUBLE               | -        | -             | -8.3               | -             | L              | -             | -            | -              | RNP1                     |
| 003           | TF              | MONAK               | -        | 115 (106.4)   | -8.3               | 19.5          | -              | +11000        | -            | -              | RNP1                     |
| 004           | TF              | CUBIC               | -        | 115 (106.7)   | -8.3               | 9.4           | -              | +FL150        | -            | -              | RNP1                     |

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               | -        | -             | -8.3               | -             | -              | +FL150        | -            | -              | RNP1                     |
| 002           | TF              | SERRY               | -        | 018 (009.5)   | -8.3               | 36.4          | -              | -             | -            | -              | RNP1                     |
| 003           | TF              | SAITI               | -        | 347 (338.8)   | -8.3               | 58.9          | -              | -             | -            | -              | RNP1                     |
| 004           | TF              | SAMBO               | -        | 351 (343.0)   | -8.3               | 47.4          | -              | -             | -            | -              | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

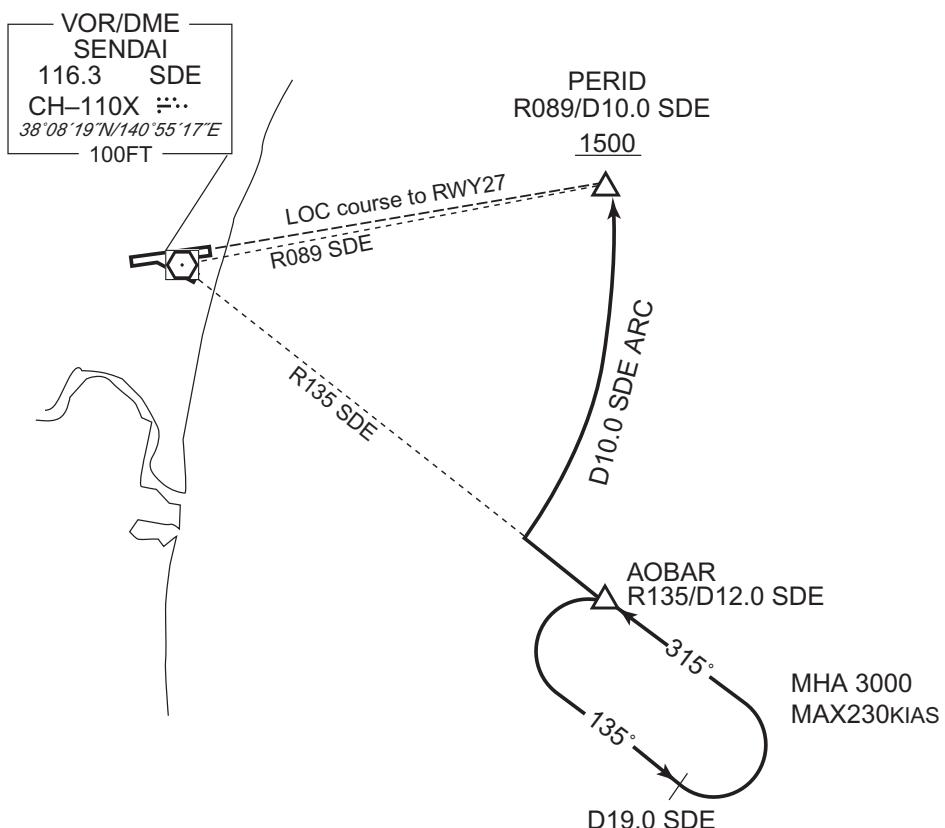
RJSS / SENDAI

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

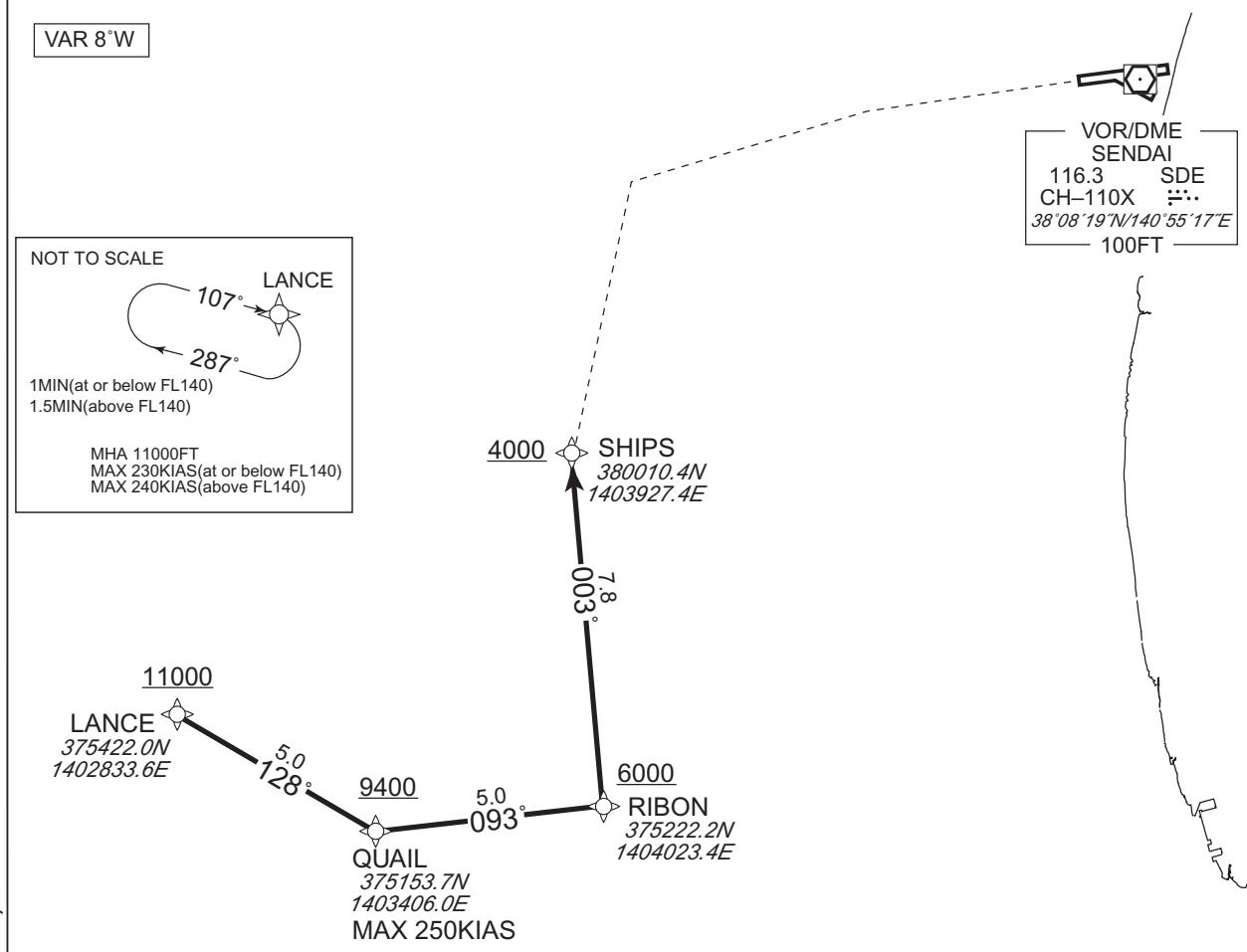
RJSS / SENDAI

RNAV STAR RWY09

LANCE WEST ARRIVAL

RNP1

Note GNSS required.



From LANCE at or above 11000FT, to QUAIL, at or above 9400FT, 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              | LANCE               | —        | —              | -8.3               | —             | —              | +11000        | —            | —              | RNP1                     |
| 002           | TF              | QUAIL               | —        | 128<br>(119.4) | -8.3               | 5.0           | —              | +9400         | -250         | —              | RNP1                     |
| 003           | TF              | RIBON               | —        | 093<br>(084.5) | -8.3               | 5.0           | —              | +6000         | —            | —              | RNP1                     |
| 004           | TF              | SHIPS               | —        | 003<br>(354.6) | -8.3               | 7.8           | —              | +4000         | —            | —              | RNP1                     |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN)        | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)                 | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | LANCE               | 107<br>(098.3)        | -8.3               | 1.0(-14000)<br>1.5(+14001) | R              | 11000                 | —                     | -230(-14000)<br>-240(+14001) | RNP1                     |

## STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

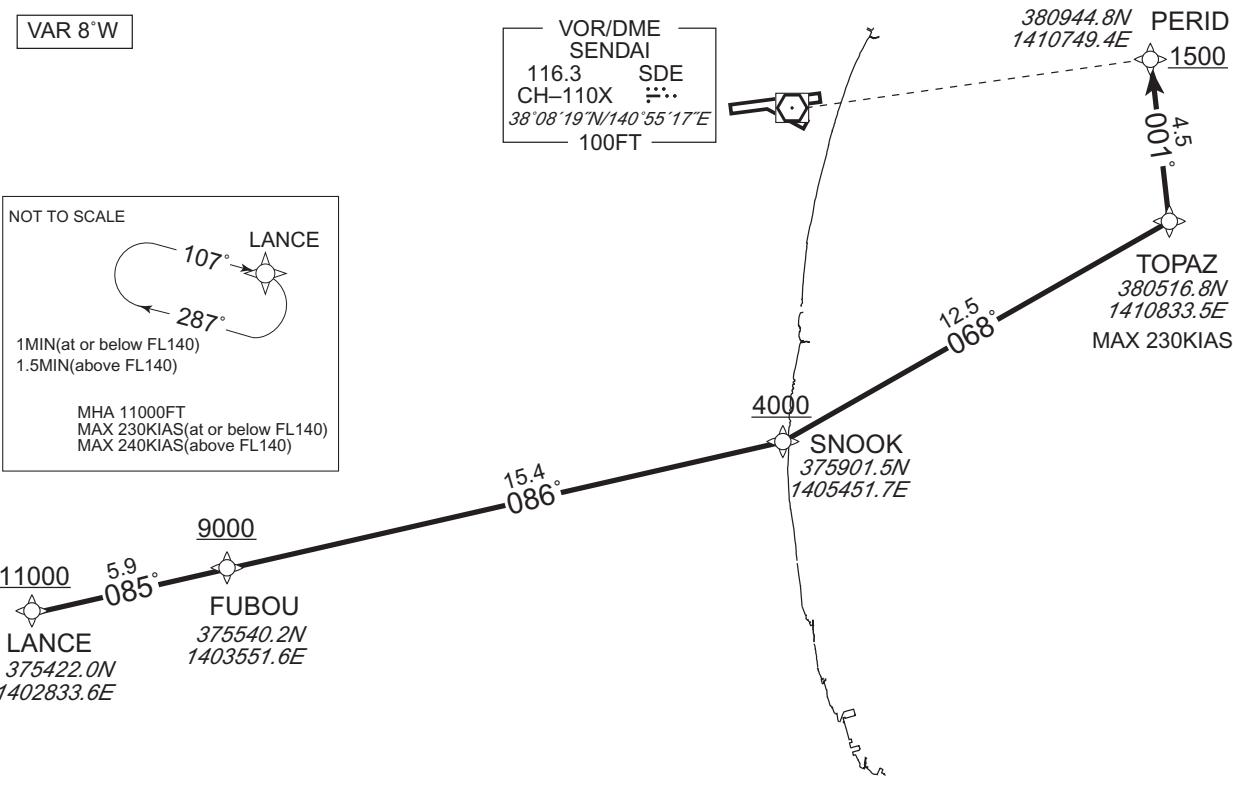
RJSS / SENDAI

RNAV STAR RWY27

LANCE EAST ALFA ARRIVAL

RNP1

Note GNSS required.



From LANCE at or above 11000FT, to FUBOU at or above 9000FT, to SNOOK at or above 4000FT, to TOPAZ, to PERID at or above 1500FT.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

| 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               | —        | —             | -8.3               | —             | —              | +11000        | —            | —              | RNP1                     |
| 002           | TF              | FUBOU               | —        | 085 (077.2)   | -8.3               | 5.9           | —              | +9000         | —            | —              | RNP1                     |
| 003           | TF              | SNOOK               | —        | 086 (077.3)   | -8.3               | 15.4          | —              | +4000         | —            | —              | RNP1                     |
| 004           | TF              | TOPAZ               | —        | 068 (059.8)   | -8.3               | 12.5          | —              | —             | -230         | —              | RNP1                     |
| 005           | TF              | PERID               | —        | 001 (352.6)   | -8.3               | 4.5           | —              | +1500         | —            | —              | RNP1                     |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN)        | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)                 | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | LANCE               | 107 (098.3)           | -8.3               | 1.0(-14000)<br>1.5(+14001) | R              | 11000                 | —                     | -230(-14000)<br>-240(+14001) | RNP1                     |

## STANDARD ARRIVAL CHART-INSTRUMENT

RJSS / SENDAI

RNAV STAR RWY27

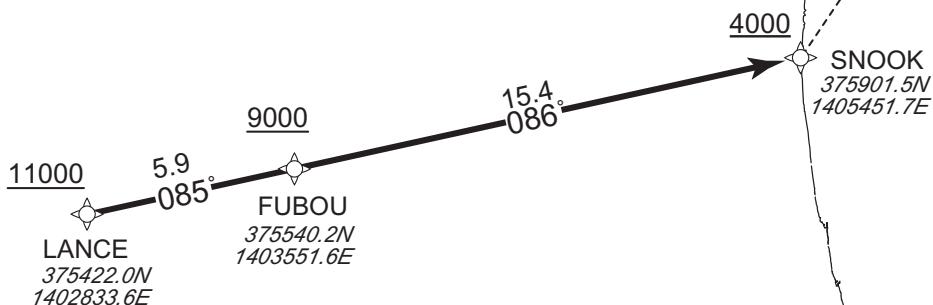
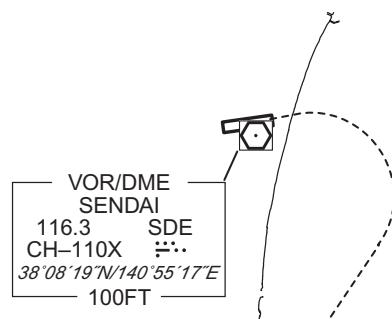
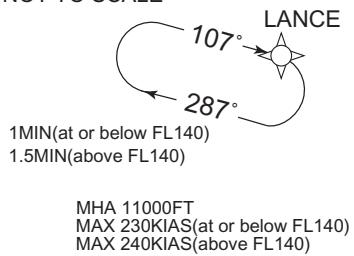
LANCE EAST BRAVO ARRIVAL

RNP1

Note GNSS required.

VAR 8°W

NOT TO SCALE



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

From LANCE at or above 11000FT, to FUBOU at or above 9000FT, 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               | —        | —              | -8.3               | —             | —              | +11000        | —            | —              | RNP1                     |
| 002           | TF              | FUBOU               | —        | 085<br>(077.2) | -8.3               | 5.9           | —              | +9000         | —            | —              | RNP1                     |
| 003           | TF              | SNOOK               | —        | 086<br>(077.3) | -8.3               | 15.4          | —              | +4000         | —            | —              | RNP1                     |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN)        | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)                 | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | LANCE               | 107<br>(098.3)        | -8.3               | 1.0(-14000)<br>1.5(+14001) | R              | 11000                 | —                     | -230(-14000)<br>-240(+14001) | RNP1                     |

## STANDARD ARRIVAL CHART-INSTRUMENT

RJSS / SENDAI

RNAV STAR RWY27

## OWLET EAST ALFA ARRIVAL

RNP1

Note GNSS required.

VAR 8°W



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

1500 PERID  
380944.8N  
1410749.4E

TOPAZ  
380516.8N  
1410833.5E  
MAX 230KIAS

4000  
5000  
SNOOK  
375901.5N  
1405451.7E

4.4°  
068°

4.4°  
068°

4.4°  
068°

4.4°  
068°

4.4°  
068°

RIBON  
375222.2N  
1404023.4E

9000  
8.8°  
068°

9000  
8.8°  
068°

9000  
8.8°  
068°

9000  
8.8°  
068°

13000  
OWLET  
374623.0N  
1402747.1E

11.6°  
067°

11.6°  
067°

11.6°  
067°

11.6°  
067°

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

| 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               | —        | —              | -8.3               | —             | —              | +13000        | —            | —              | RNP1                     |
| 002           | TF              | RIBON               | —        | 067<br>(058.9) | -8.3               | 11.6          | —              | +9000         | —            | —              | RNP1                     |
| 003           | TF              | ORKID               | —        | 068<br>(059.7) | -8.3               | 8.8           | —              | +5000         | —            | —              | RNP1                     |
| 004           | TF              | SNOOK               | —        | 068<br>(059.8) | -8.3               | 4.4           | —              | +4000         | —            | —              | RNP1                     |
| 005           | TF              | TOPAZ               | —        | 068<br>(059.8) | -8.3               | 12.5          | —              | —             | -230         | —              | RNP1                     |
| 006           | TF              | PERID               | —        | 001<br>(352.6) | -8.3               | 4.5           | —              | +1500         | —            | —              | RNP1                     |

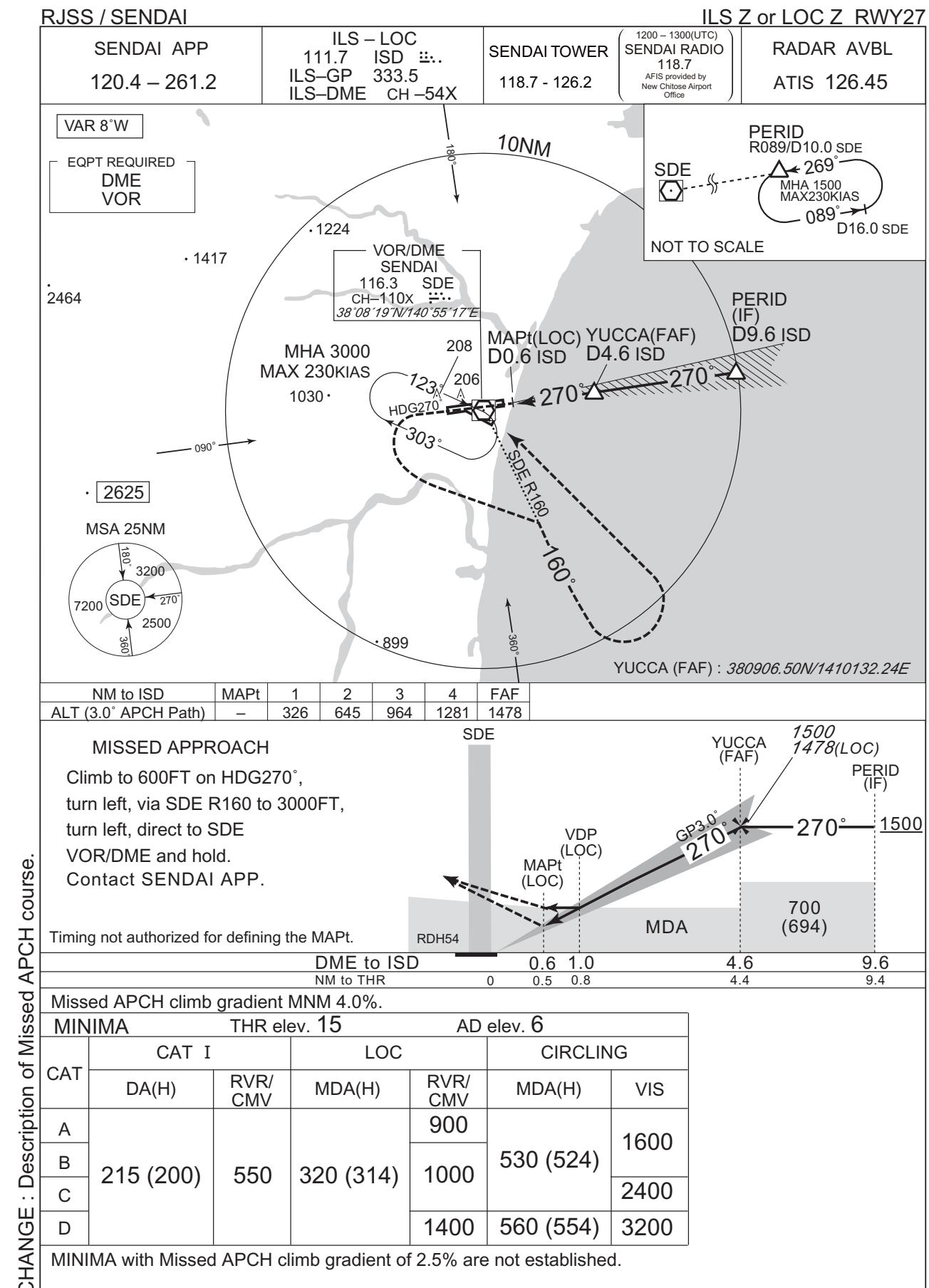
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN)        | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)                 | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | OWLET               | 080<br>(071.7)        | -8.3               | 1.0(-14000)<br>1.5(+14001) | R              | 13000                 | —                     | -230(-14000)<br>-240(+14001) | RNP1                     |

## STANDARD ARRIVAL CHART-INSTRUMENT



**INTENTIONALLY LEFT BLANK**

## INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

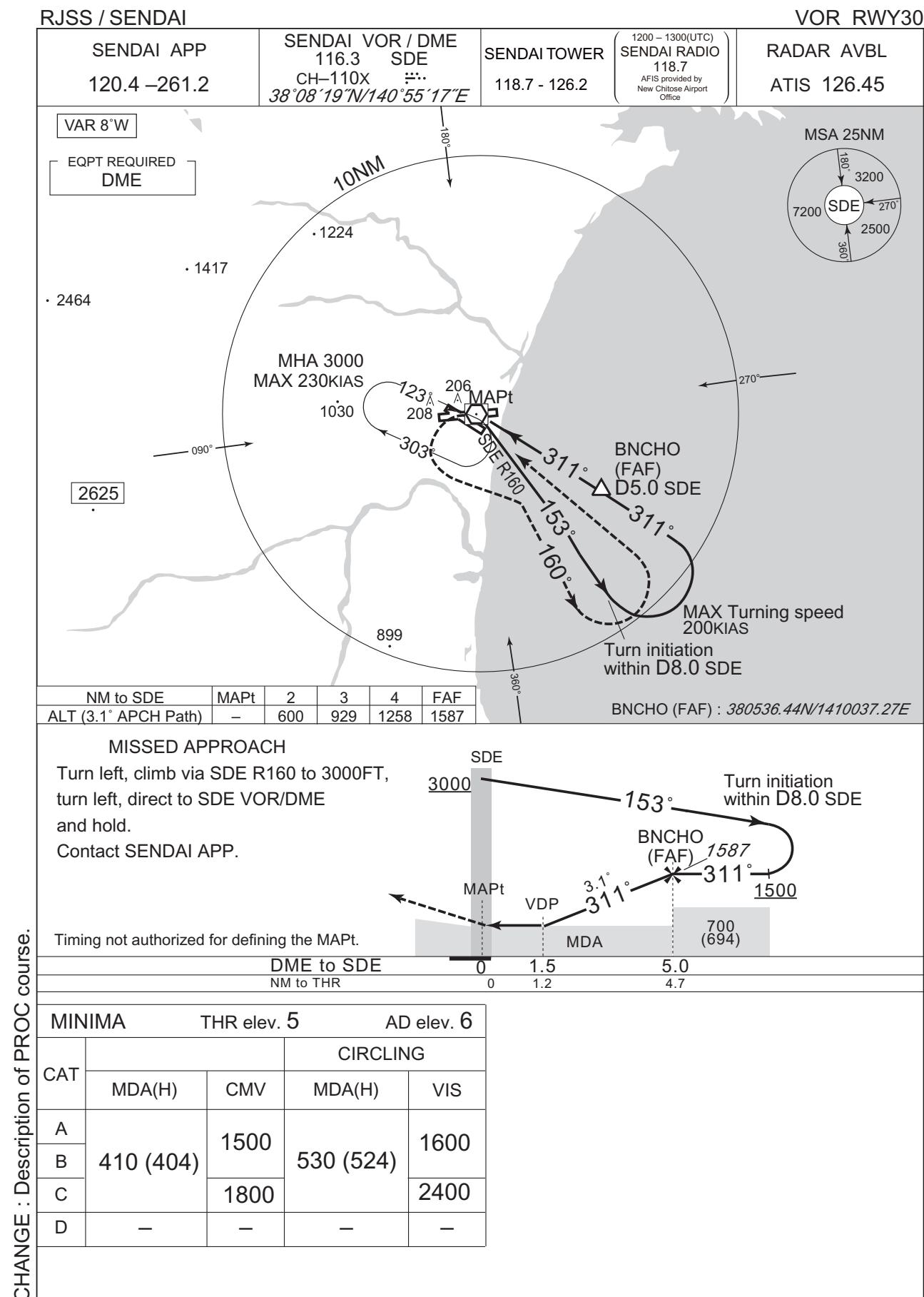
RJSS / SENDAI



INSTRUMENT APPROACH CHART



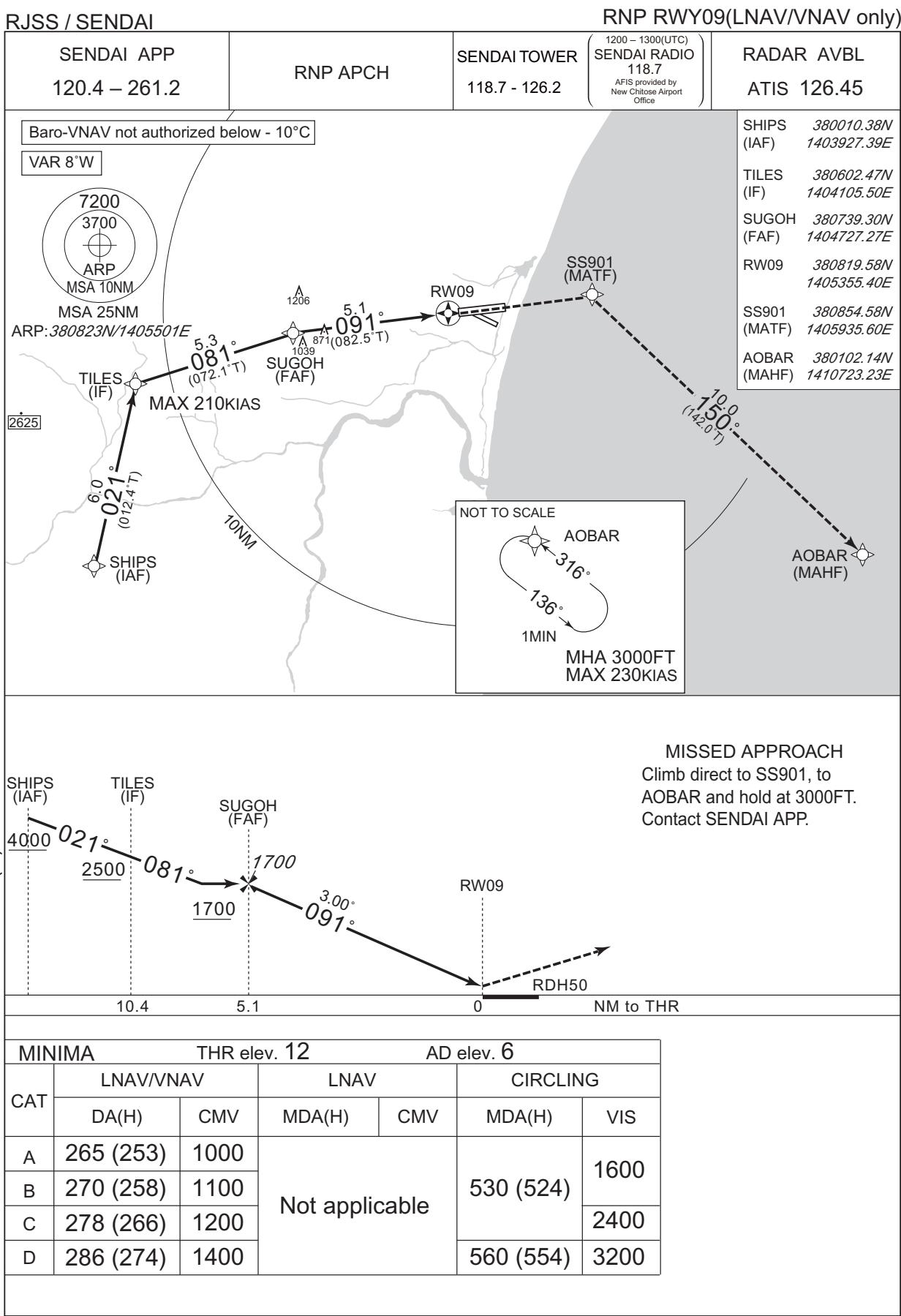
## INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

CHANGE : PROC renamed. Course FM TILES to SUGOH. MATF abolished. Missed APCH PROC. MINIMA for LNAV/VNAV, LNAV.

HLDG for NAVAID deleted. OCA(H) deleted.



## INSTRUMENT APPROACH CHART

RJSS / SENDAI

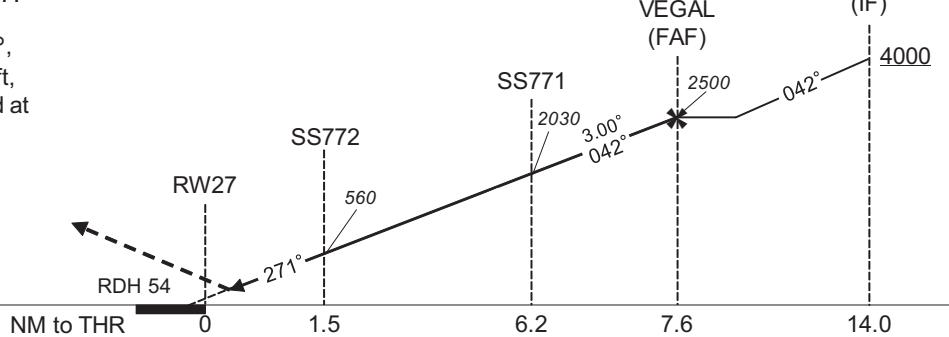
RNP RWY27(AR)



## MISSED APPROACH

From RW27 on track 271°, at or above 600FT turn left, direct to SNOOK and hold at 4000FT.

Contact SENDAI APP.



CHANGE : Description of VAR.

|     | MINIMA   | THR elev. 15 | AD elev. 6 |
|-----|----------|--------------|------------|
| CAT | RNP 0.30 |              |            |
|     | DA(H)    | RVR/CMV      |            |
| A   | -        | -            |            |
| B   |          |              |            |
| C   | 315(300) | 1000         |            |
| D   |          | 1400         |            |

## Authorization Required

\* Missed APCH climb gradient MNM 4.0%

## INSTRUMENT APPROACH CHART

RJSS / SENDAI

RNP RWY27(AR)

Coding 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               | -        | -             | -8.3               | -             | -              | +4000         | -            | -               | -         |
| 002           | TF                              | VEGAL               | -        | 042 (033.3)   | -8.3               | 6.4           | -              | 2500          | -            | -               | 1.0       |
| 003           | TF                              | SS771               | -        | 042 (033.4)   | -8.3               | 1.5           | -              | 2030          | -165         | -3.00           | 0.3       |
| 004           | RF Center:<br>SSRF1<br>r=2.02NM | SS772               | -        | -             | -8.3               | 4.6           | L              | 560           | -            | -3.00           | 0.3       |
| 005           | TF                              | RW27                | Y        | 271 (262.6)   | -8.3               | 1.5           | -              | 69            | -            | -3.00/54        | 0.3       |
| 006           | FA                              | -                   | -        | 271 (262.6)   | -8.3               | -             | -              | +600          | -            | -               | 1.0       |
| 007           | DF                              | SNOOK               | -        | -             | -8.3               | -             | L              | 4000          | -            | -               | 1.0       |

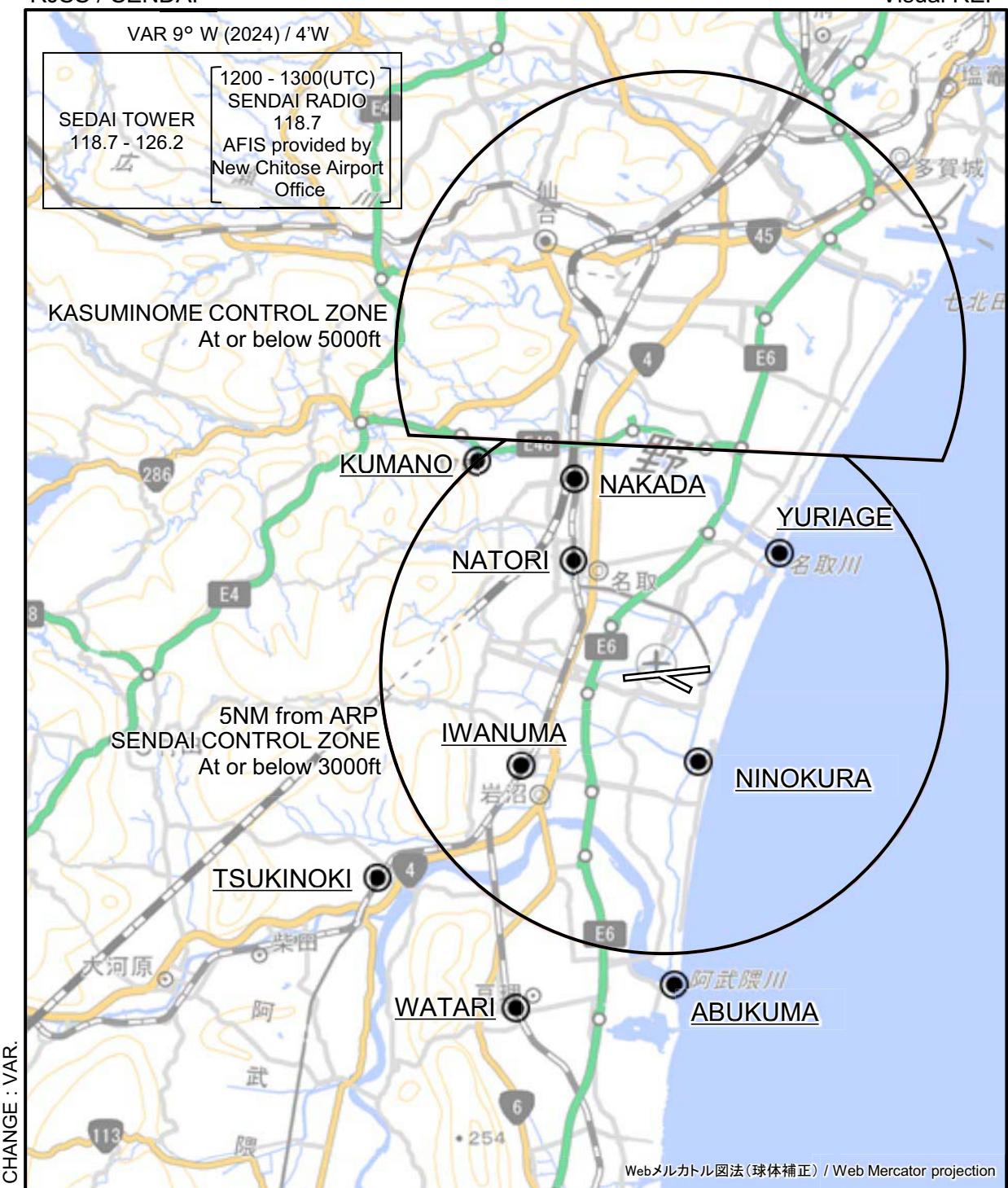
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)  | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| Hold | SNOOK               | 080 (071.9)           | -8.3               | 1.0 (-14000)        | R              | 4000                  | FL140                 | -210 (-14000) | 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 |                          |                          |

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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).

RJSS / SENDAI

Visual REP

| Call sign       | BRG / DIST from ARP | Remarks                              |
|-----------------|---------------------|--------------------------------------|
| 熊野<br>Kumano    | 319°T / 5.0NM       | 熊野神社<br>Kumano Shrine                |
| 中田<br>Nakada    | 336°T / 3.8NM       | JR南仙台駅<br>Station                    |
| 閑上<br>Yuriage   | 043°T / 2.9NM       | 名取川河口<br>River-mouth of the Natori   |
| 名取<br>Natori    | 321°T / 2.6NM       | JR名取駅<br>Station                     |
| 二の倉<br>Ninokura | 160°T / 1.7NM       | 県南浄化センター<br>Sewage disposal center   |
| 岩沼<br>Iwanuma   | 236°T / 3.0NM       | JR岩沼駅<br>Station                     |
| 楓木<br>Tsukinoki | 234°T / 6.2NM       | JR楓木駅<br>Station                     |
| 阿武隈<br>Abukuma  | 178°T / 5.6NM       | 阿武隈川河口<br>River-mouth of the Abukuma |
| 亘理<br>Watari    | 204°T / 6.5NM       | JR亘理駅<br>Station                     |

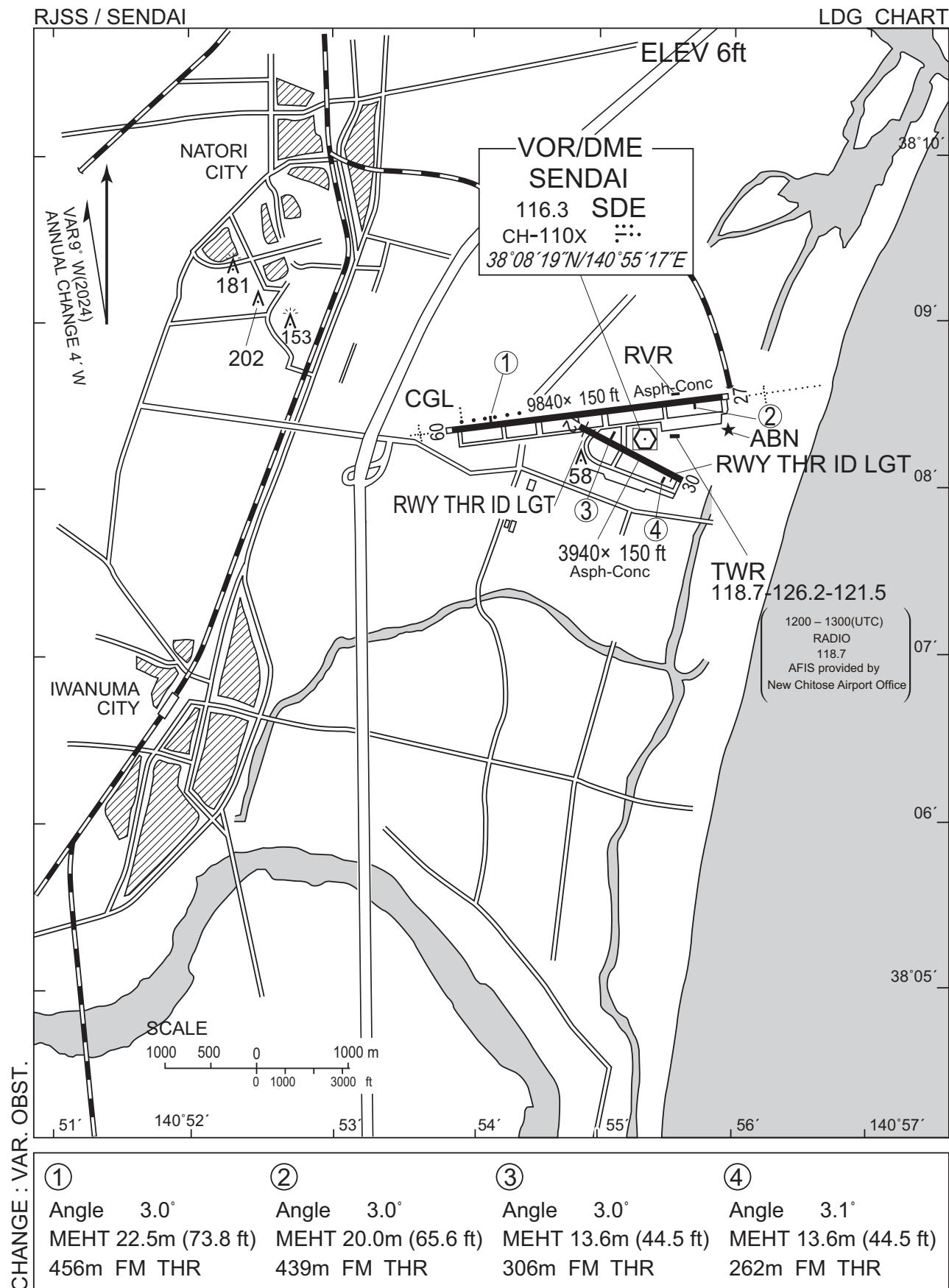
注：有視界飛行方式により霞目管制圏から仙台管制圏へ進入しようとする航空機は、仙台管制圏に入圏する前に仙台タワーまたは仙台レディオへ通報すること。

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

CHANGE : SENDAI RADIO added to NOTE.

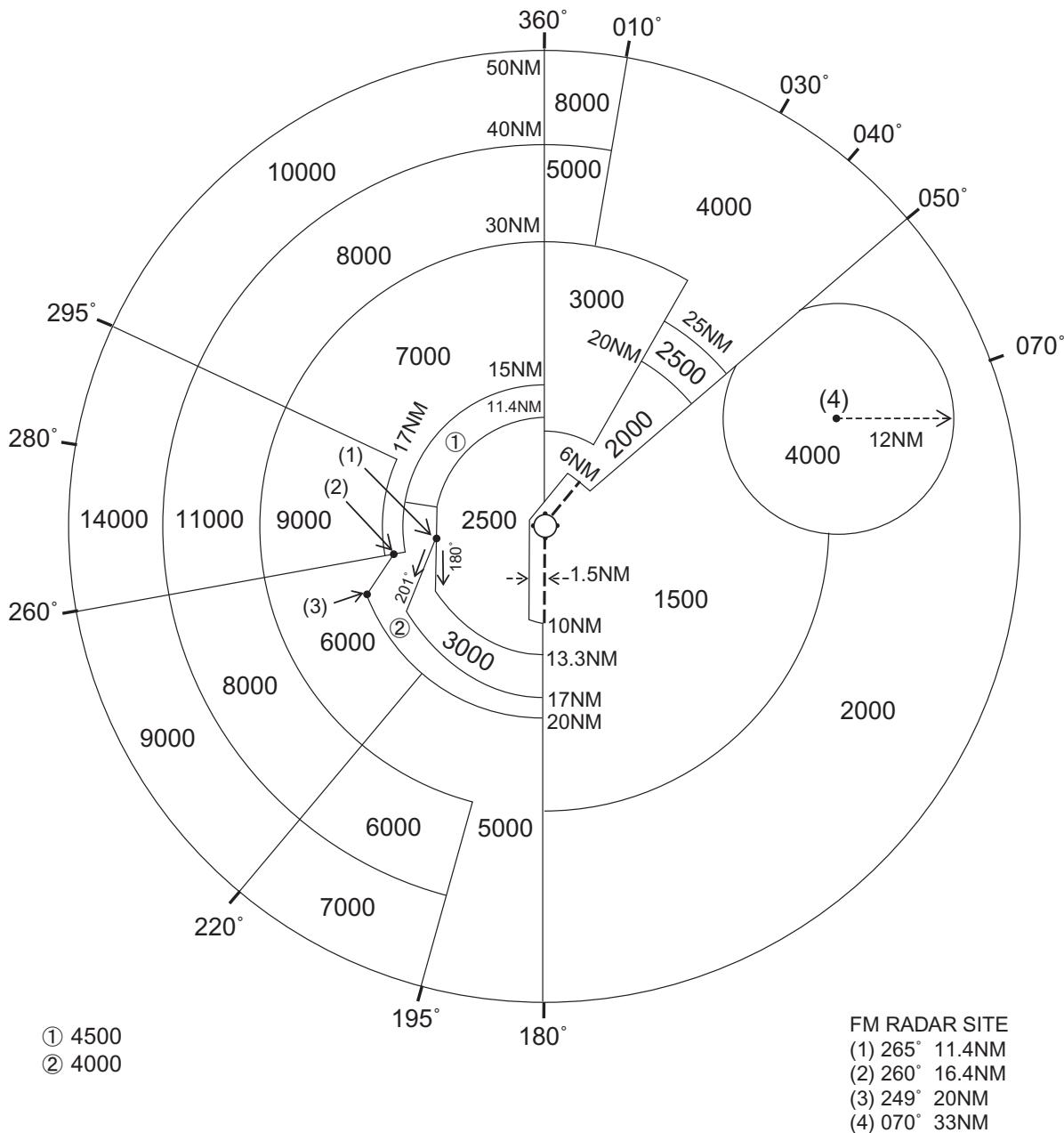


RJSS / SENDAI

## Minimum Vectoring Altitude CHART

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VAR 9°W (2024)



## CHANGE : VAR.