

**ODATE-NOSHIRO AP**

**TRUE NORTH**

**VOR/DME (ODE)**

**ABN ★**

**TERMINAL BLD**

**FIRE STATION**

**APRON FLOOD LGT**

**SEE DETAIL - A**

**TURNING POINT INDICATOR LGT**

**WIND SPEED METER**

**WDI**

**CEILOMETER**

**WIND SPEED METER**

**PAPI Angle 3.0°**

**MEHT 18.5m(61ft)**

**RVR**

**WIND SPEED METER**

**PAPI Angle 3.0°**

**MEHT 18.5m(61ft)**

**ARP**

**OVERRUN AREA EDGE LGT**

**CIRCLING GUIDANCE LGT**

**414.9m**

**ALS**

**SALS**

**SEQUENCED FLASHING LGT (SFL-V)**

**APCH LGT BEACONS**

**330m**

**570m**

**420m**

**300m**

**900m**

**600m**

**DETAIL - A**

**REMARKS :**

**RWY GROOVING**

**2000m x 45m**

**RWY STRENGTH**

**PCR 902/F/C/X/T**

**30m**

**WIDTH OF TWY**

**225m x 110m**

**APRON**

**LONGITUDINAL PROFILE OF RWY**

**RWY 11**

**259.18ft**

**(79.00)m**

**RWY 29**

**291.99ft**

**(89.00)m**

**0.5%**

**2000m**

**0m**

STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

SID

ODATE REVERSAL TWO DEPARTURE

RWY11 : Climb RWY HDG to 1800FT, turn right HDG332° to intercept and proceed...

RWY29 : Climb RWY HDG to ODE 3.0DME,...

...via ODE R287 to 6.0DME, turn left, direct to ODE VOR/DME.

Cross ODE VOR/DME at or above 6000FT.

Note RWY11 : 5.0% climb gradient required up to 1800FT.

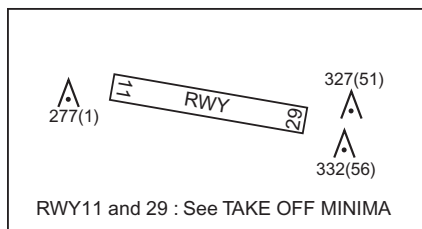
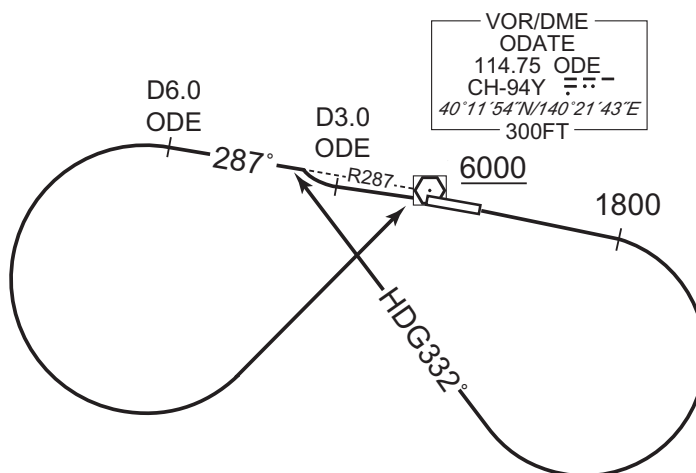
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 137° FM end of RWY11.

RWY29 : 4.0% climb gradient required up to 700FT.

OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.

CHANGE : Description of PROC name.



## STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

SID

LAGOON THREE DEPARTURE

RWY11 : Climb RWY HDG to 1800FT, turn right HDG332° to intercept and proceed...

RWY29 : Climb RWY HDG to ODE 3.0DME,...

...via ODE R287 to NOSSY, turn left, via UWE R360 to UWE VOR/DME.

Cross NOSSY at or above 3000FT.

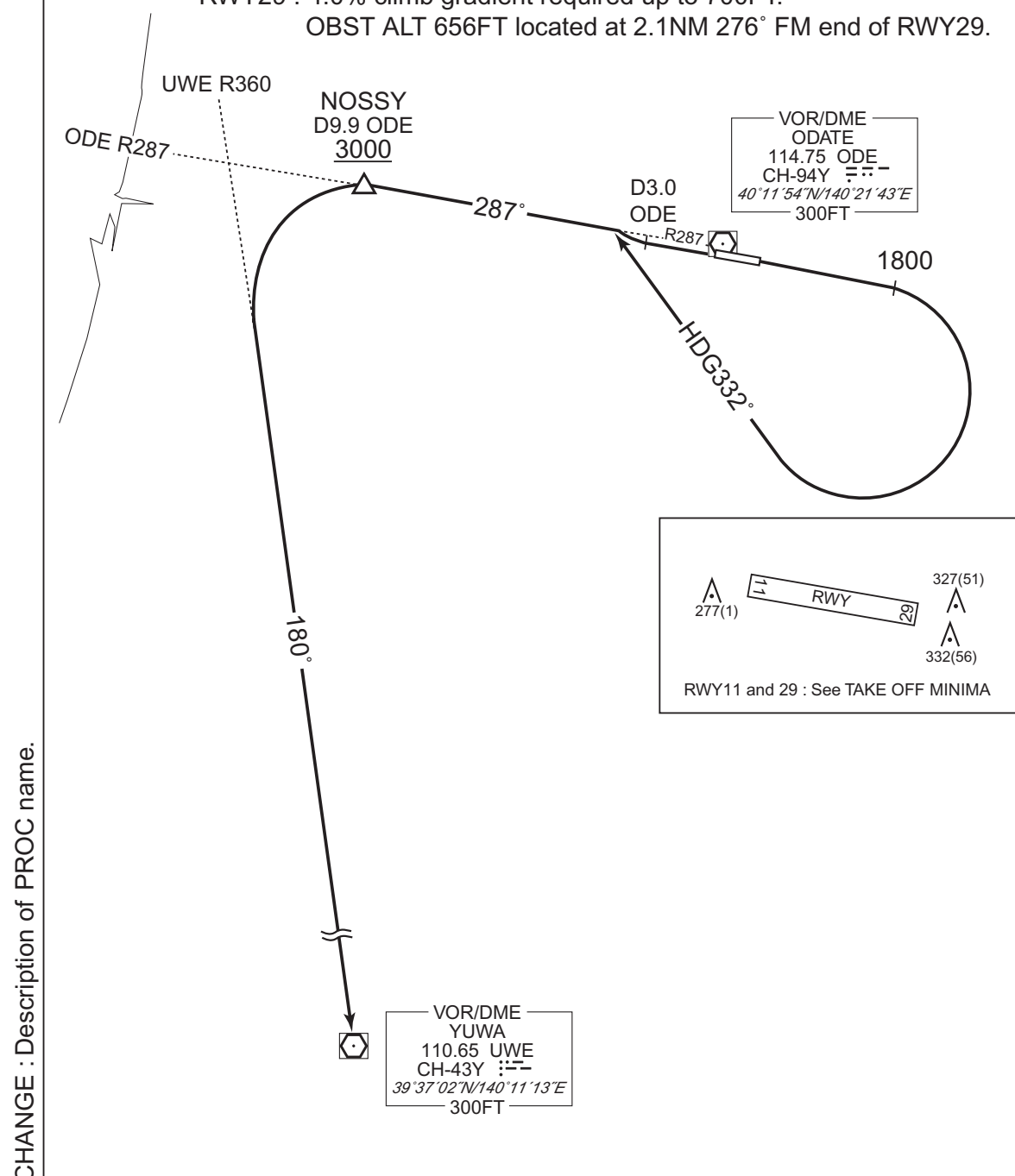
Note RWY11 : 5.0% climb gradient required up to 1800FT.

OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 137° FM end of RWY11.

RWY29 : 4.0% climb gradient required up to 700FT.

OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.



STANDARD ARRIVAL CHART - INSTRUMENT

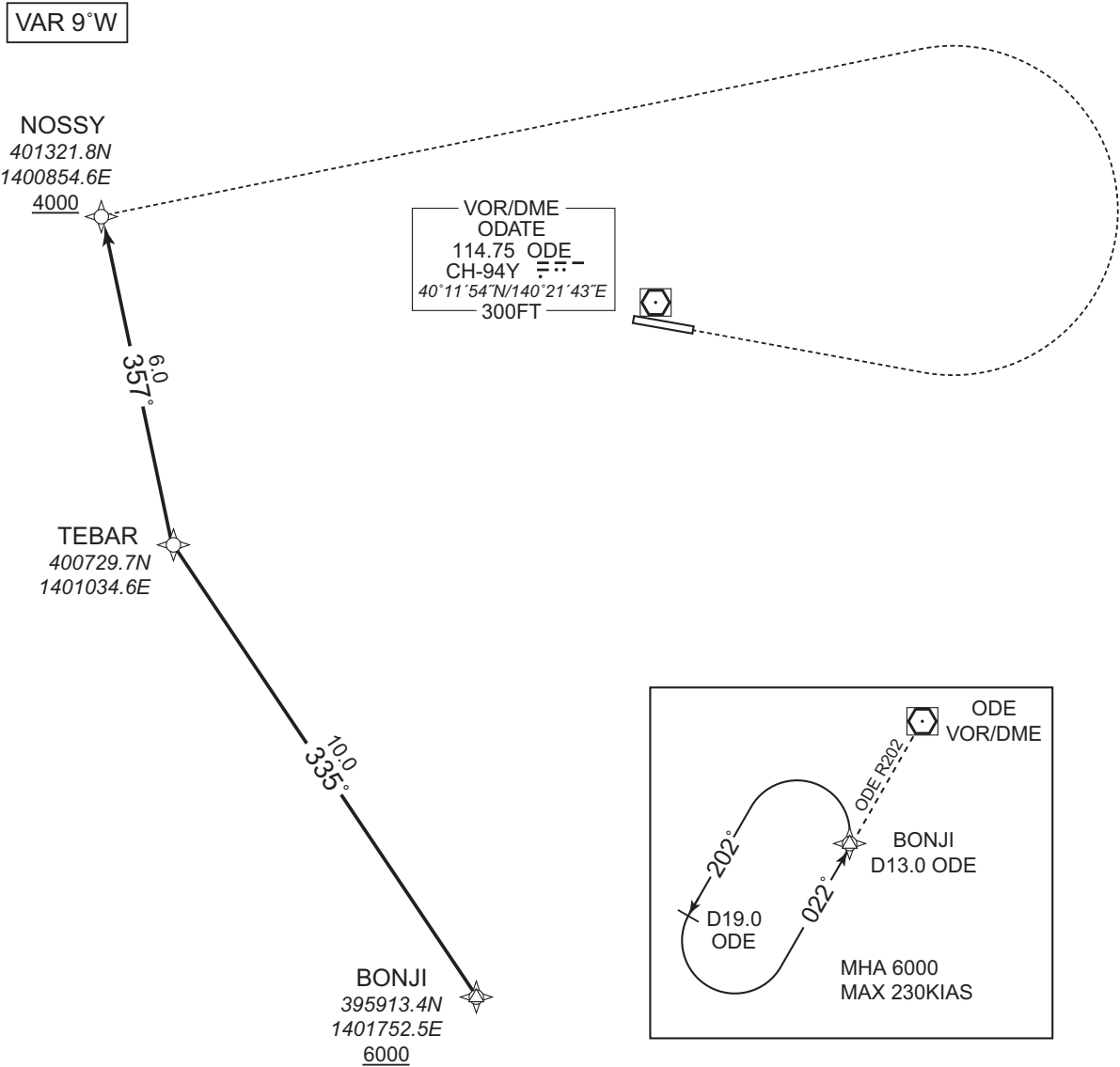
RJSR / ODATE-NOSHIRO

RNAV STAR RWY29

NOSSY ARRIVAL

RNP1

Note GNSS required.



From BONJI at or above 6000FT, to TEBAR, to NOSSY 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              | BONJI               | —        | —             | -8.8               | —             | —              | +6000         | —            | —              | RNP1                     |
| 002           | TF              | TEBAR               | —        | 335 (326.0)   | -8.8               | 10.0          | —              | —             | —            | —              | RNP1                     |
| 003           | TF              | NOSSY               | —        | 357 (347.8)   | -8.8               | 6.0           | —              | +4000         | —            | —              | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

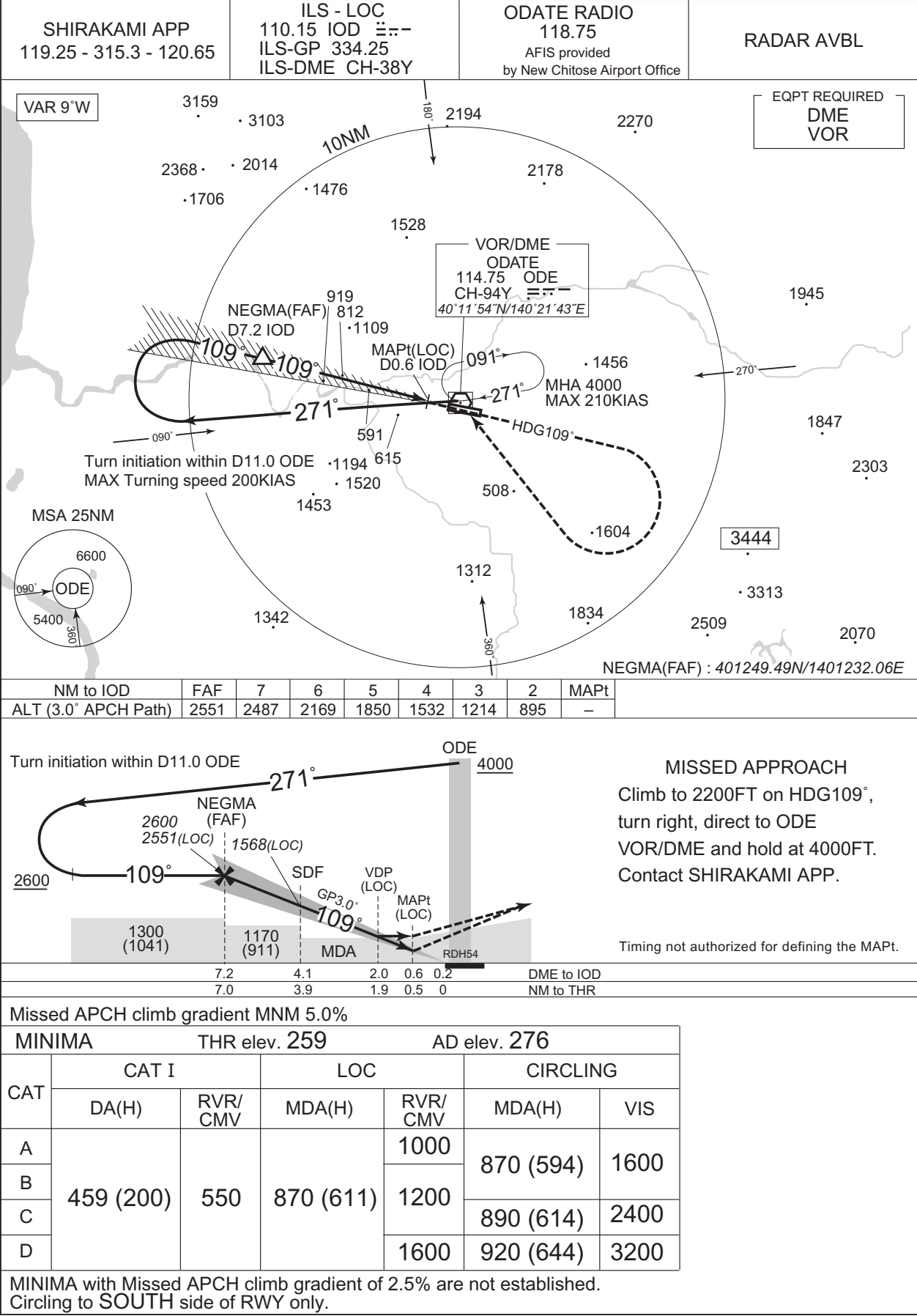
## RJSR / ODATE-NOSHIRO

ILS Z or LOC Z RWY11



INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO ILS Y or LOC Y RWY11



CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

## RJSR / ODATE-NOSHIRO

VOR A



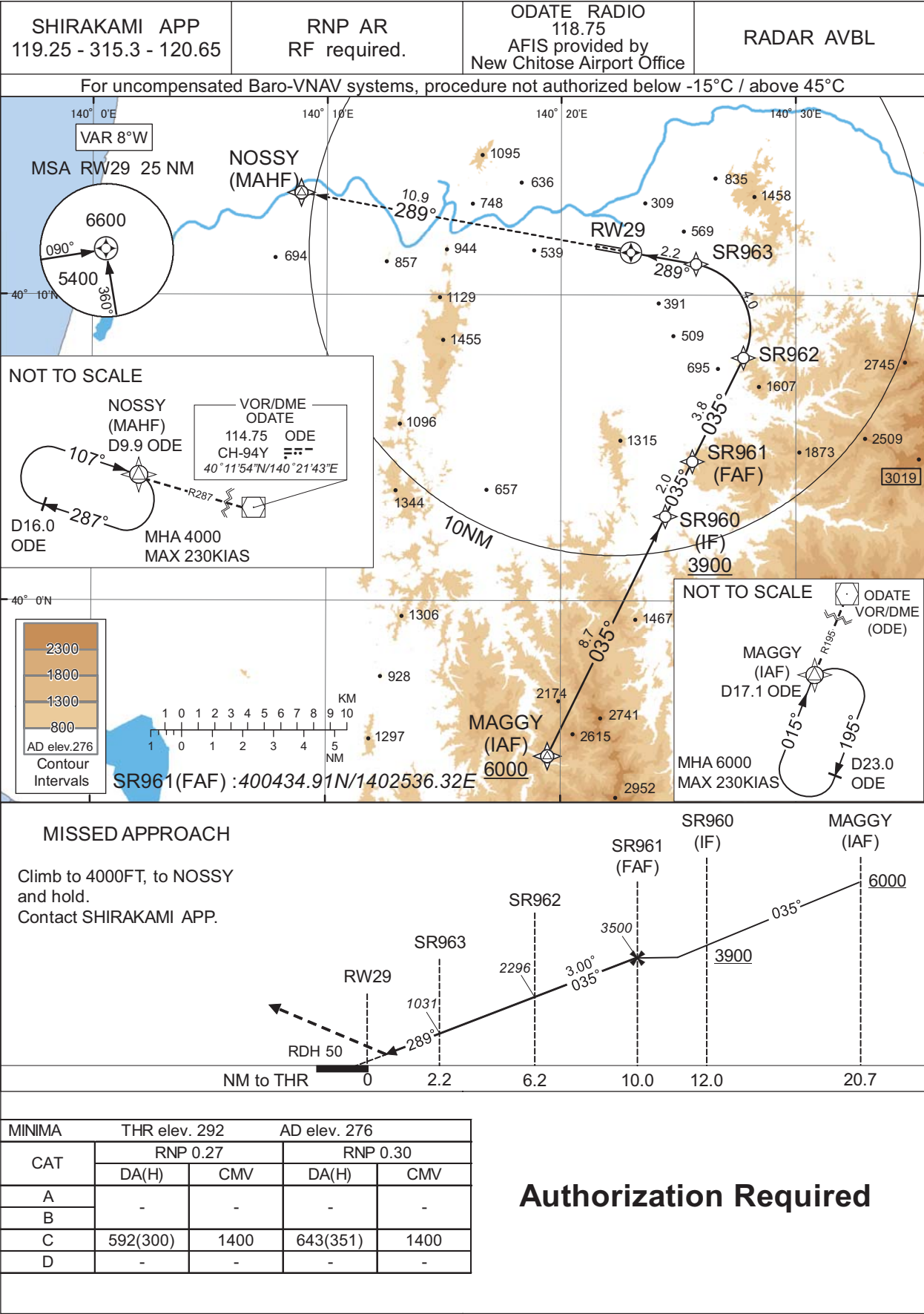
MINIMA AD elev. 276

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

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNP Z RWY29(AR)



CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.



INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNP Z RWY29(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                                 | MAGGY               | -        | -              | -8.5               | -             | -              | +6000         | -            | -               | -            |
| 002           | TF                                 | SR960               | -        | 035<br>(026.1) | -8.5               | 8.7           | -              | +3900         | -            | -               | 1.0          |
| 003           | TF                                 | SR961               | -        | 035<br>(026.1) | -8.5               | 2.0           | -              | 3500          | -            | -               | 1.0          |
| 004           | TF                                 | SR962               | -        | 035<br>(026.1) | -8.5               | 3.8           | -              | 2296          | -            | -3.00           | 0.27<br>0.30 |
| 005           | RF<br>Center:<br>SRRF1<br>r=2.15NM | SR963               | -        | -              | -8.5               | 4.0           | L              | 1031          | -            | -3.00           | 0.27<br>0.30 |
| 006           | TF                                 | RW29                | Y        | 289<br>(280.1) | -8.5               | 2.2           | -              | 342           | -            | -3.00/50        | 0.27<br>0.30 |
| 007           | TF                                 | NOSSY               | -        | 289<br>(280.3) | -8.5               | 10.9          | -              | 4000          | -            | -               | 1.0          |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| MAGGY               | 395456.61N / 1401926.80E | SRRF1                    | 400855.54N / 1402516.24E |
| SR960               | 400247.11N / 1402427.29E |                          |                          |
| SR961               | 400434.91N / 1402536.32E |                          |                          |
| SR962               | 400758.60N / 1402746.93E |                          |                          |
| SR963               | 401102.48N / 1402545.54E |                          |                          |
| RW29                | 401125.10N / 1402258.78E |                          |                          |
| NOSSY               | 401321.82N / 1400854.64E |                          |                          |

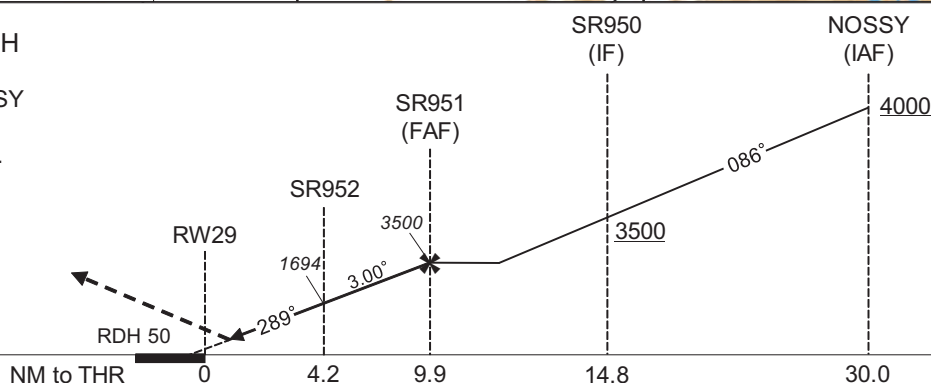
CHANGE : PROC renamed.

## RJSR / ODATE-NOSHIRO

RNP Y RWY29(AR)



Climb to 4000FT, to NOSSY  
and hold.  
Contact SHIRAKAMI APP.



| MINIMA |          | THR elev. 292 | AD elev. 276 |      |
|--------|----------|---------------|--------------|------|
| CAT    | RNP 0.27 |               | RNP 0.30     |      |
|        | DA(H)    | CMV           | DA(H)        | CMV  |
| A      | -        | -             | -            | -    |
| B      |          |               |              |      |
| C      | 592(300) | 1400          | 643(351)     | 1400 |
| D      | -        | -             | -            | -    |

## Authorization Required

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNP Y RWY29(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                                 | NOSSY               | -        | -              | -8.5               | -             | -              | +4000         | -            | -               | -            |
| 002           | TF                                 | SR950               | -        | 086<br>(077.7) | -8.5               | 15.2          | -              | +3500         | -185         | -               | 1.0          |
| 003           | RF<br>Center:<br>SRRF2<br>r=3.00NM | SR951               | -        | -              | -8.5               | 4.9           | R              | 3500          | -            | -               | 1.0          |
| 004           | RF<br>Center:<br>SRRF2<br>r=3.00NM | SR952               | -        | -              | -8.5               | 5.7           | R              | 1694          | -            | -3.00           | 0.27<br>0.30 |
| 005           | TF                                 | RW29                | Y        | 289<br>(280.1) | -8.5               | 4.2           | -              | 342           | -            | -3.00/50        | 0.27<br>0.30 |
| 006           | TF                                 | NOSSY               | -        | 289<br>(280.3) | -8.5               | 10.9          | -              | 4000          | -            | -               | 1.0          |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| SR950               | 401634.48N / 1402818.75E | SRRF2                    | 401338.11N / 1402908.01E |
| SR951               | 401403.14N / 1403301.06E |                          |                          |
| SR952               | 401040.53N / 1402826.85E |                          |                          |
| RW29                | 401125.10N / 1402258.78E |                          |                          |
| NOSSY               | 401321.82N / 1400854.64E |                          |                          |

CHANGE : PROC renamed.

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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).

CHANGE : Call sign(REMOTE→RADIO).

| Call sign            | BRG / DIST from ARP | Remarks   |
|----------------------|---------------------|---|
| 樹海ドーム<br>Jyukai Dome | 058°T / 11.6NM      | 大館市白色ドーム<br>White Dome Odate City                   |
| 藤琴<br>Fujikoto       | 314°T / 7.2NM       | 粕毛川・藤琴川交点<br>Intersection Kasuge and Fujikoto River |
| 鷹巣<br>Takanosu       | 357°T / 2.5NM       | JR駅北側<br>North of JR Station                        |
| 能代<br>Noshiro        | 272°T / 17.3NM      | 能代港<br>Noshiro Harbor                               |
| 米内沢<br>Yonaizawa     | 183°T / 4.2NM       | 内陸線米内沢駅南側米内沢橋<br>Bridge                             |
| 阿仁<br>Ani            | 173°T / 11.6NM      | 内陸線阿仁合駅<br>Station                                  |

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LDG CHART



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Minimum Vectoring Altitude CHART

