

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.

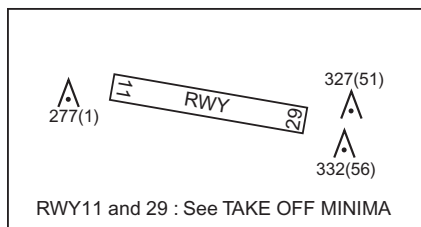
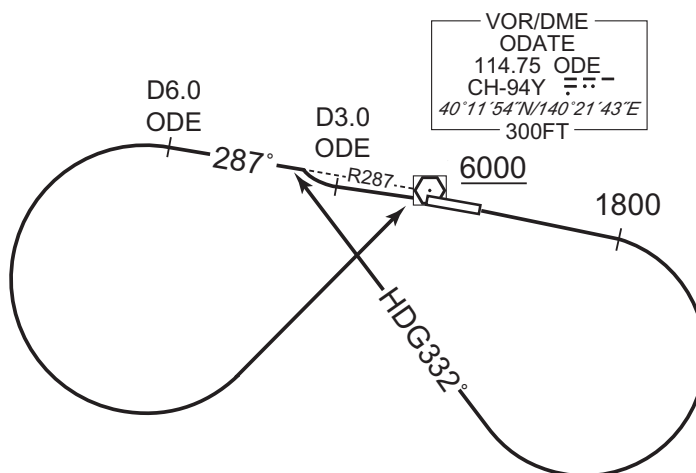
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

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.



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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.

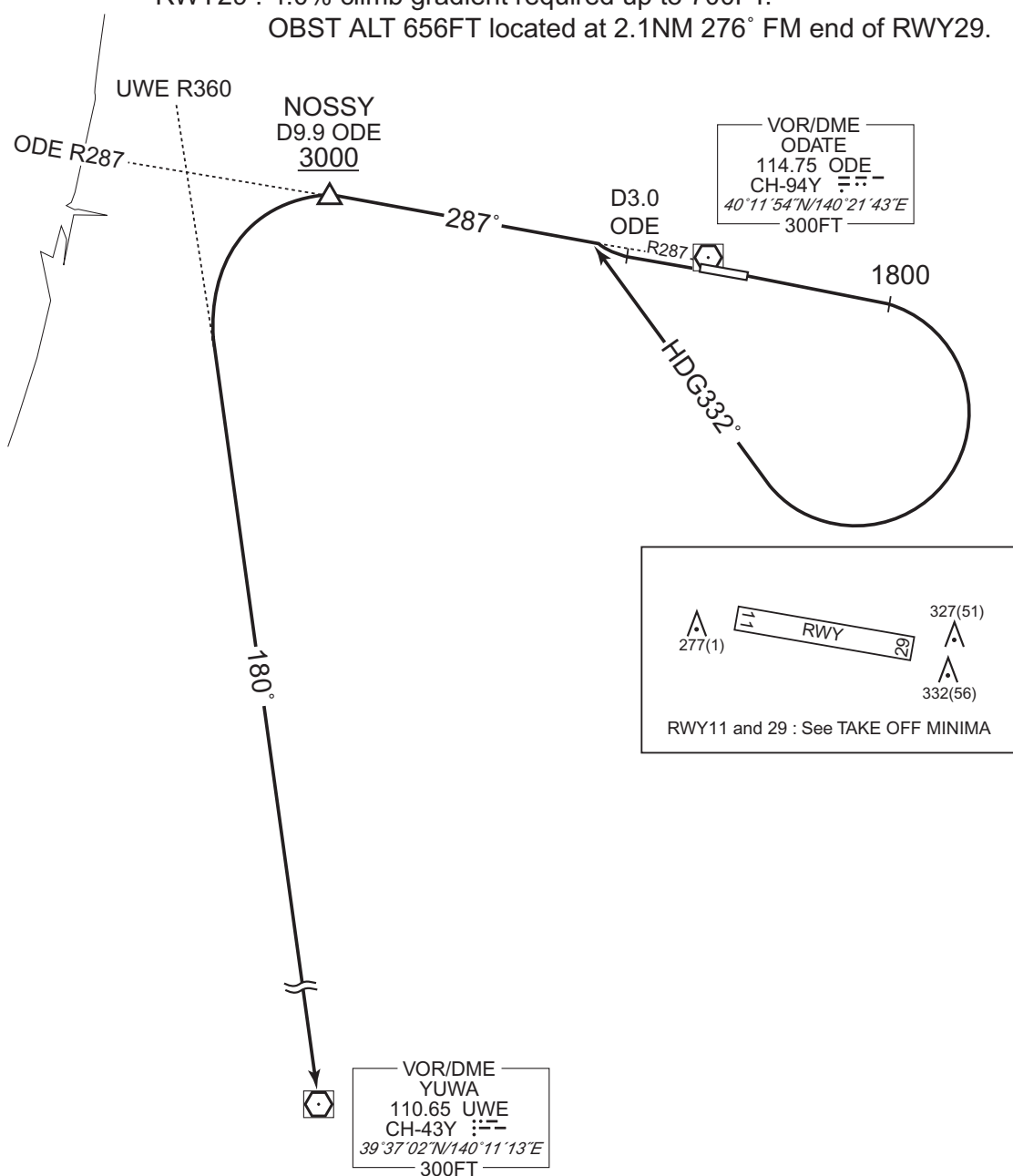
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

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.

CHANGE : Description of PROC name.



STANDARD ARRIVAL CHART - INSTRUMENT

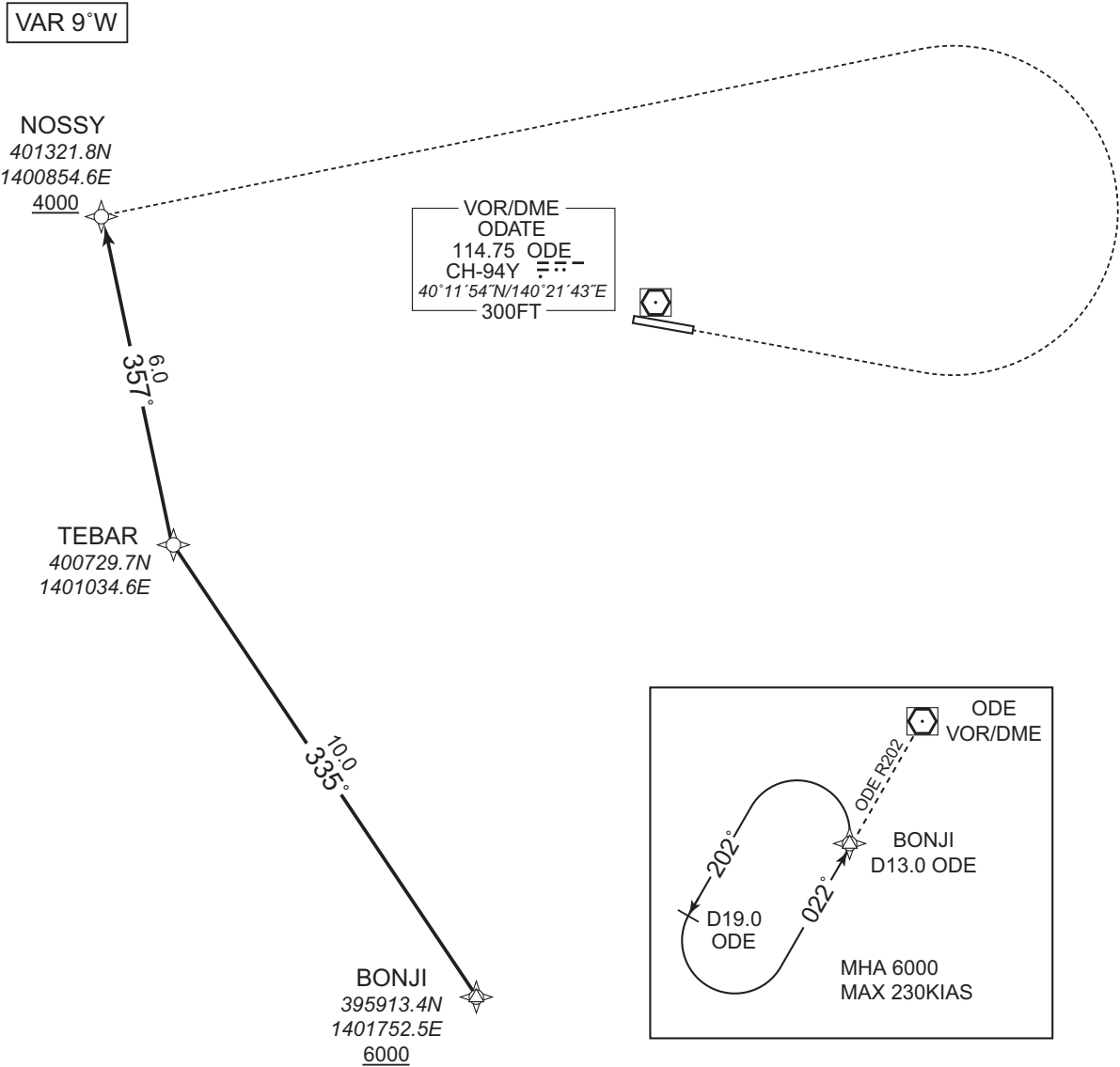
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RNAV STAR RWY29

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).

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ILS Z or LOC Z RWY11



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ILS Y or LOC Y RWY11



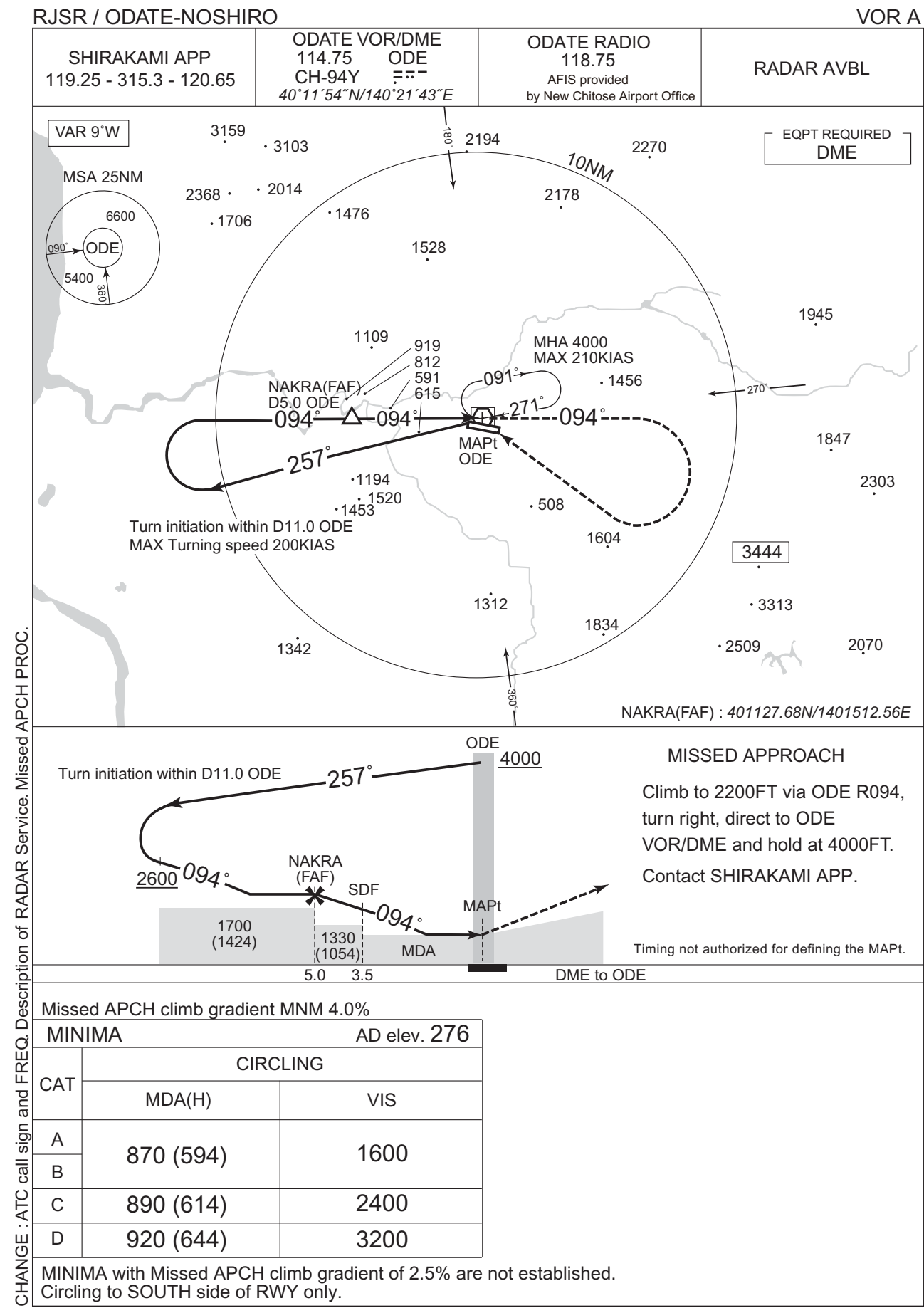
MISSED APPROACH
Climb to 2200FT on HDG109°,
turn right, direct to ODE
VOR/DME and hold at 4000FT.
Contact SHIRAKAMI APP.

| |
|-------------------------------------|
| Missed APCH climb gradient MNM 5.0% |
|-------------------------------------|

| MINIMA | | THR elev. 259 | | AD elev. 276 | | |
|--------|-----------|---------------|-----------|--------------|-----------|------|
| CAT | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 459 (200) | 550 | 870 (611) | 1000 | 870 (594) | 1600 |
| B | | | | 1200 | | |
| C | | | | | 890 (614) | 2400 |
| D | | | | 1600 | 920 (644) | 3200 |

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

INSTRUMENT APPROACH CHART

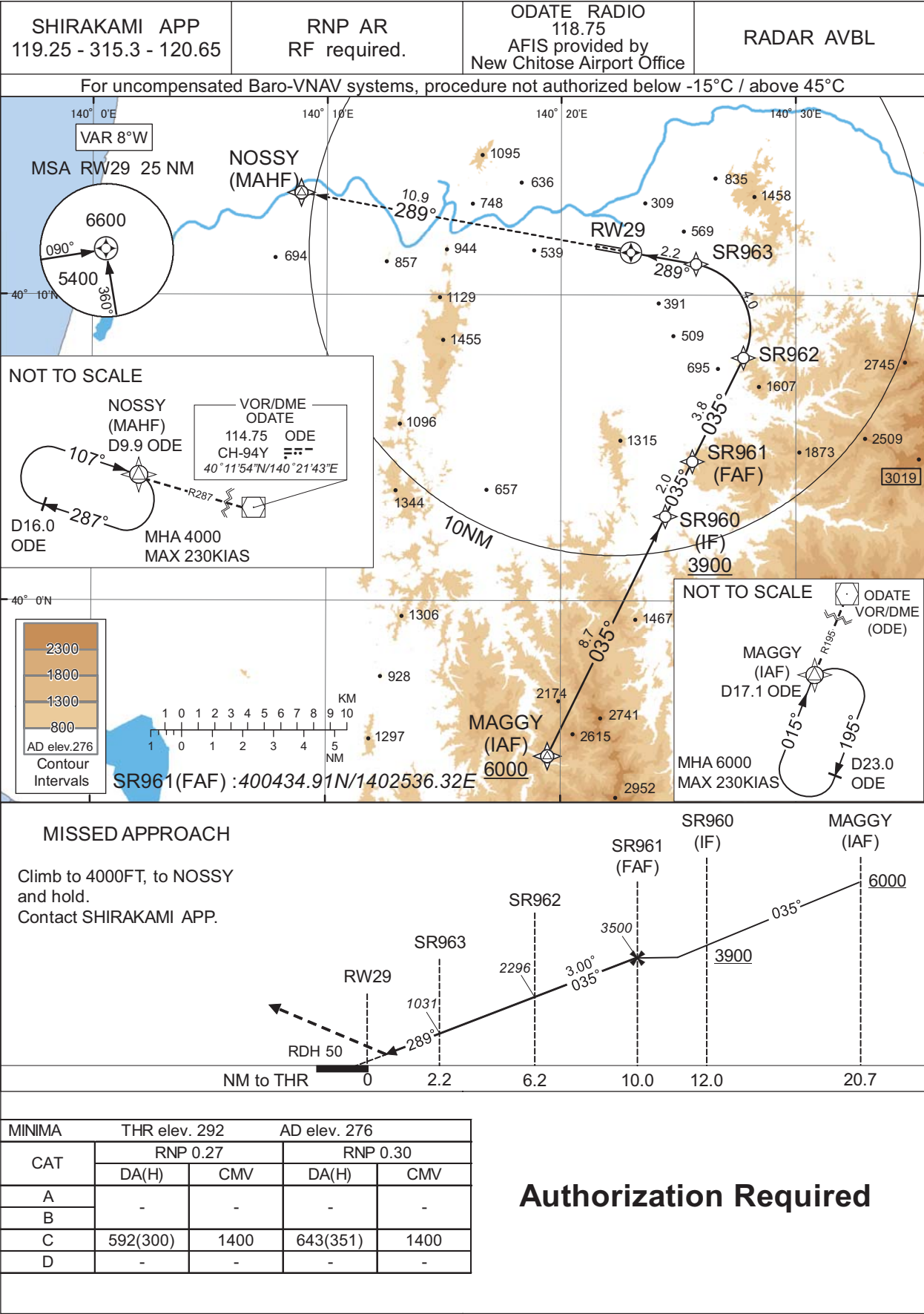


CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

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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 (026.1) | -8.5 | 8.7 | - | +3900 | - | - | 1.0 |
| 003 | TF | SR961 | - | 035 (026.1) | -8.5 | 2.0 | - | 3500 | - | - | 1.0 |
| 004 | TF | SR962 | - | 035 (026.1) | -8.5 | 3.8 | - | 2296 | - | -3.00 | 0.27 0.30 |
| 005 | RF Center: SRRF1 r=2.15NM | SR963 | - | - | -8.5 | 4.0 | L | 1031 | - | -3.00 | 0.27 0.30 |
| 006 | TF | RW29 | Y | 289 (280.1) | -8.5 | 2.2 | - | 342 | - | -3.00/50 | 0.27 0.30 |
| 007 | TF | NOSSY | - | 289 (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 | | |

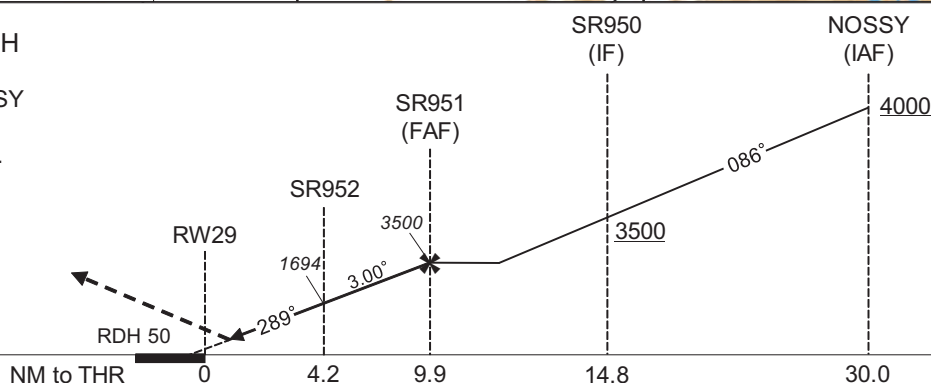
CHANGE : PROC renamed.

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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

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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 (077.7) | -8.5 | 15.2 | - | +3500 | -185 | - | 1.0 |
| 003 | RF Center: SRRF2 r=3.00NM | SR951 | - | - | -8.5 | 4.9 | R | 3500 | - | - | 1.0 |
| 004 | RF Center: SRRF2 r=3.00NM | SR952 | - | - | -8.5 | 5.7 | R | 1694 | - | -3.00 | 0.27 0.30 |
| 005 | TF | RW29 | Y | 289 (280.1) | -8.5 | 4.2 | - | 342 | - | -3.00/50 | 0.27 0.30 |
| 006 | TF | NOSSY | - | 289 (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 Jyukai Dome | 058°T / 11.6NM | 大館市白色ドーム White Dome Odate City |
| 藤琴 Fujikoto | 314°T / 7.2NM | 粕毛川・藤琴川交点 Intersection Kasuge and Fujikoto River |
| 鷹巣 Takanosu | 357°T / 2.5NM | JR駅北側 North of JR Station |
| 能代 Noshiro | 272°T / 17.3NM | 能代港 Noshiro Harbor |
| 米内沢 Yonaizawa | 183°T / 4.2NM | 内陸線米内沢駅南側米内沢橋 Bridge |
| 阿仁 Ani | 173°T / 11.6NM | 内陸線阿仁合駅 Station |

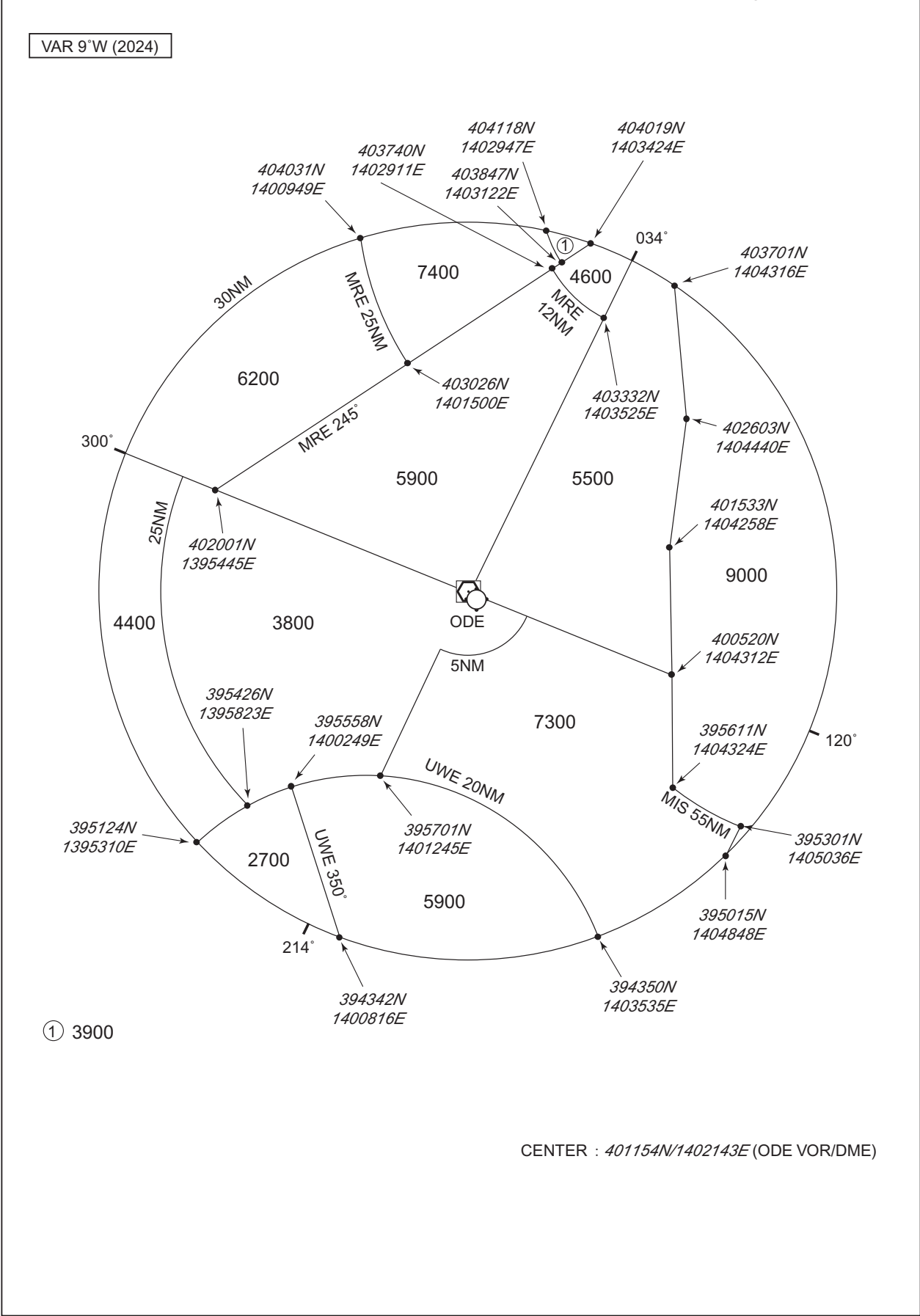
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LDG CHART



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Minimum Vectoring Altitude CHART



CHANGE : Update.