

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.

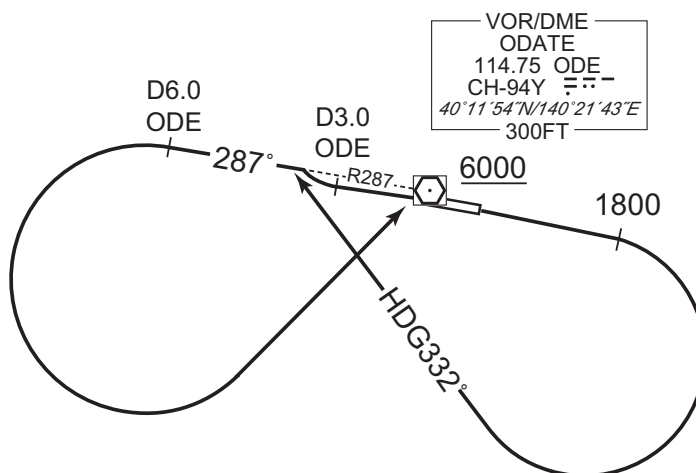
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 138° 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 : OBST.



STANDARD DEPARTURE CHART -INSTRUMENT

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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.

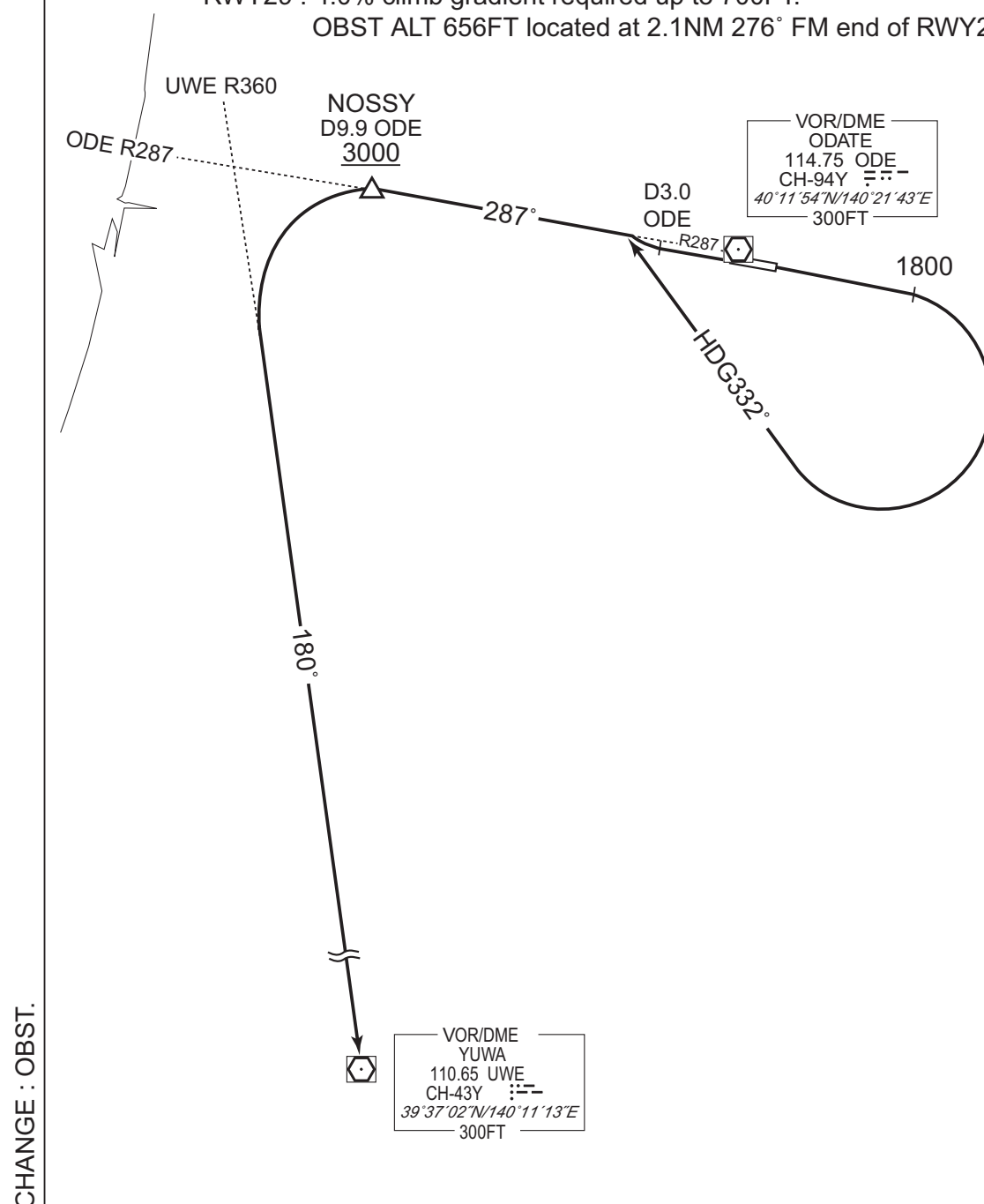
Note RWY11 : 5.0% climb gradient required up to 1800FT.

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

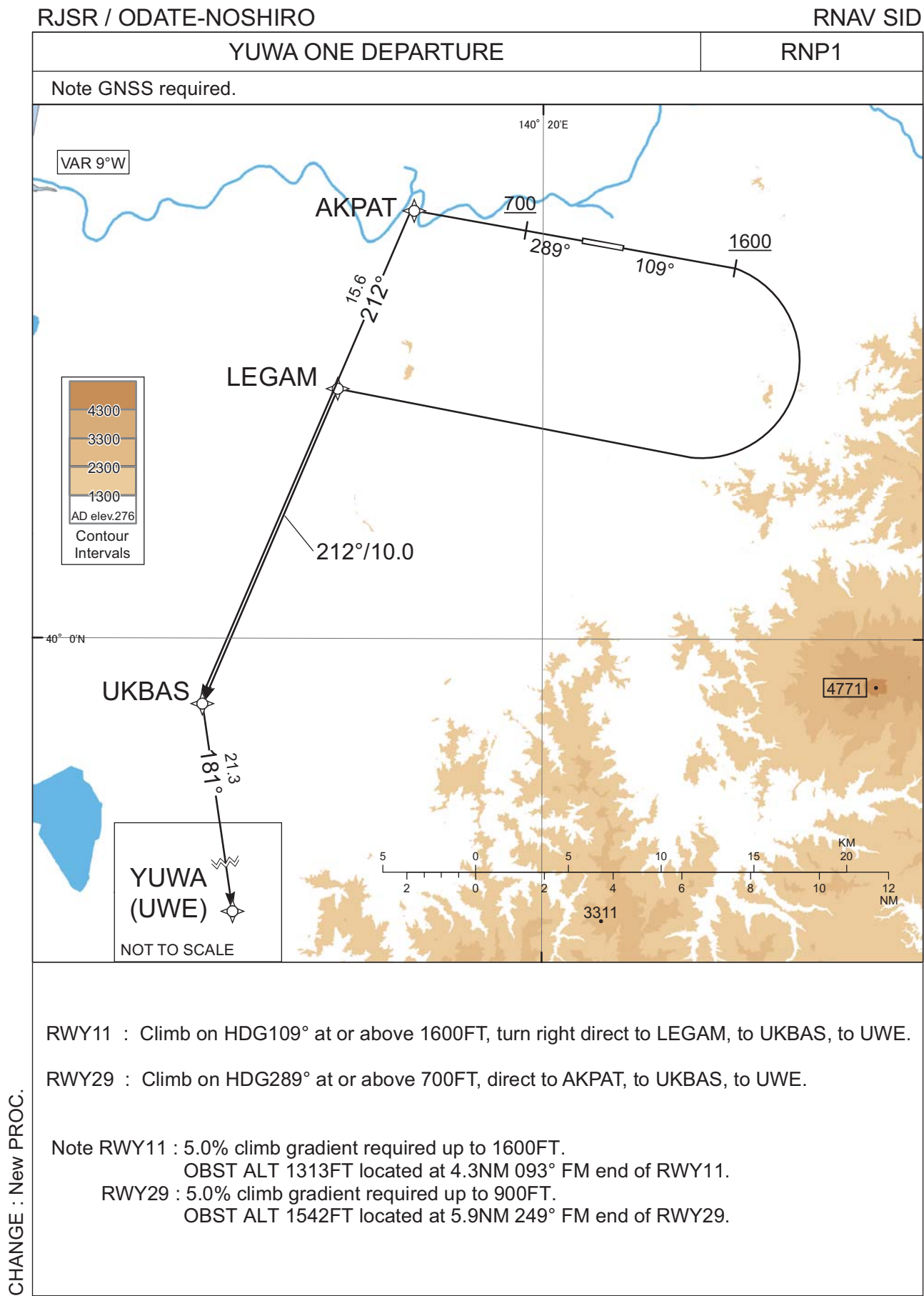
OBST ALT 2100FT located at 9.5NM 138° FM end of RWY11.

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

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



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RNAV SID

YUWA ONE DEPARTURE

RWY11

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	-	-	109 (100.0)	-9.2	-	-	+1600	-	-	RNP1
002	DF	LEGAM	-	-	-9.2	-	R	-	-	-	RNP1
003	TF	UKBAS	-	212 (203.0)	-9.2	10.0	-	-	-	-	RNP1
004	TF	UWE	-	181 (171.5)	-9.2	21.3	-	-	-	-	RNP1

RWY29

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	-	-	289 (280.1)	-9.2	-	-	+700	-	-	RNP1
002	DF	AKPAT	-	-	-9.2	-	-	-	-	-	RNP1
003	TF	UKBAS	-	212 (203.0)	-9.2	15.6	-	-	-	-	RNP1
004	TF	UWE	-	181 (171.5)	-9.2	21.3	-	-	-	-	RNP1

Waypoint Coordinates

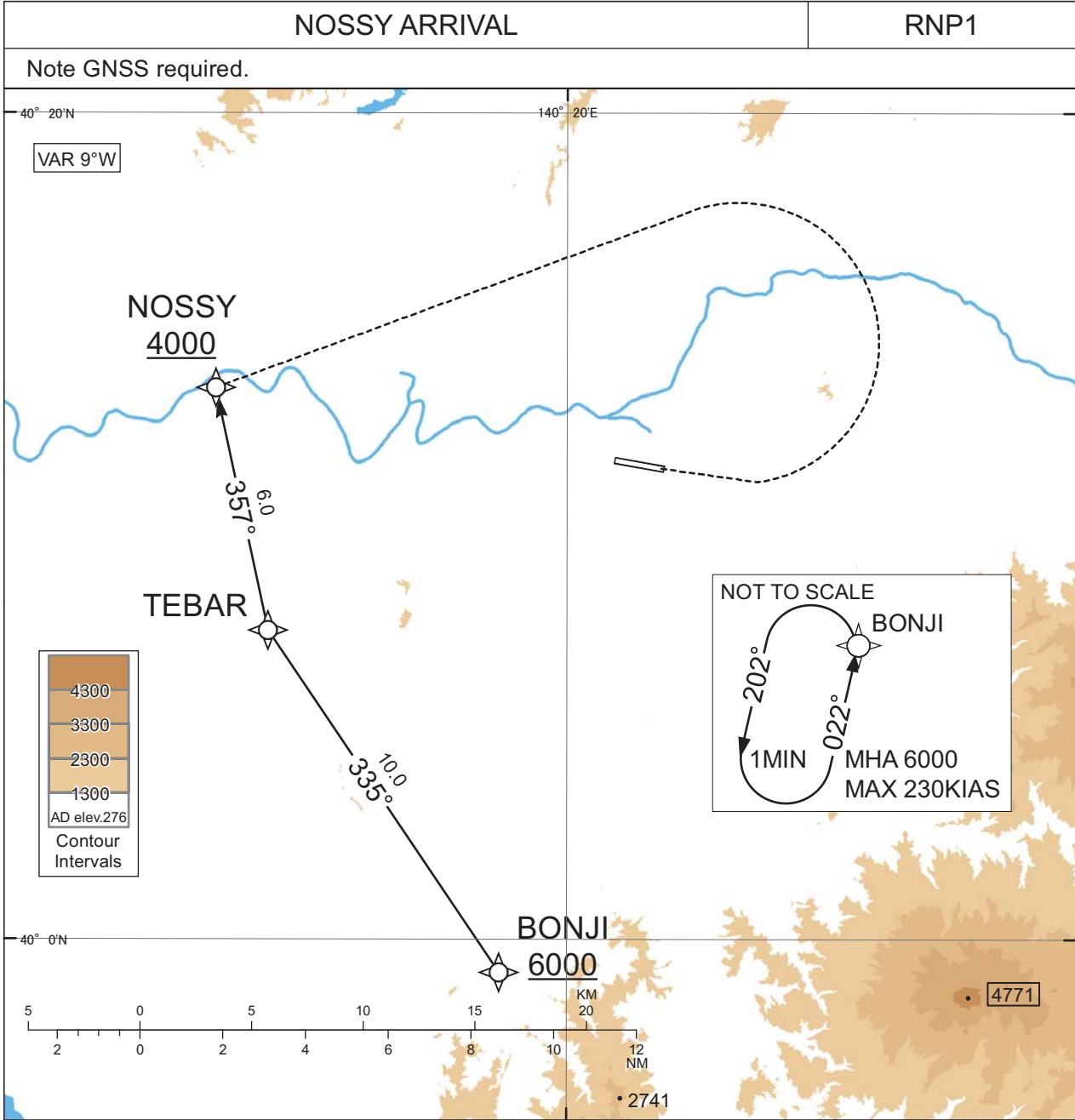
Waypoint Identifier	Coordinates
LEGAM	400717.6N / 1401213.9E
AKPAT	401228.7N / 1401506.9E
UKBAS	395806.7N / 1400708.7E
UWE	393701.7N / 1401113.0E

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJSR / ODATE-NOSHIRO

RNAV STAR RWY29



CHANGE : HLDG pattern for BONJI.

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

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	BONJI	022 (013.0)	-9.2	1.0(-14000)	L	6000	FL 140	-230(-14000)	RNP1

STANDARD ARRIVAL CHART - INSTRUMENT

RJSR / ODATE-NOSHIRO

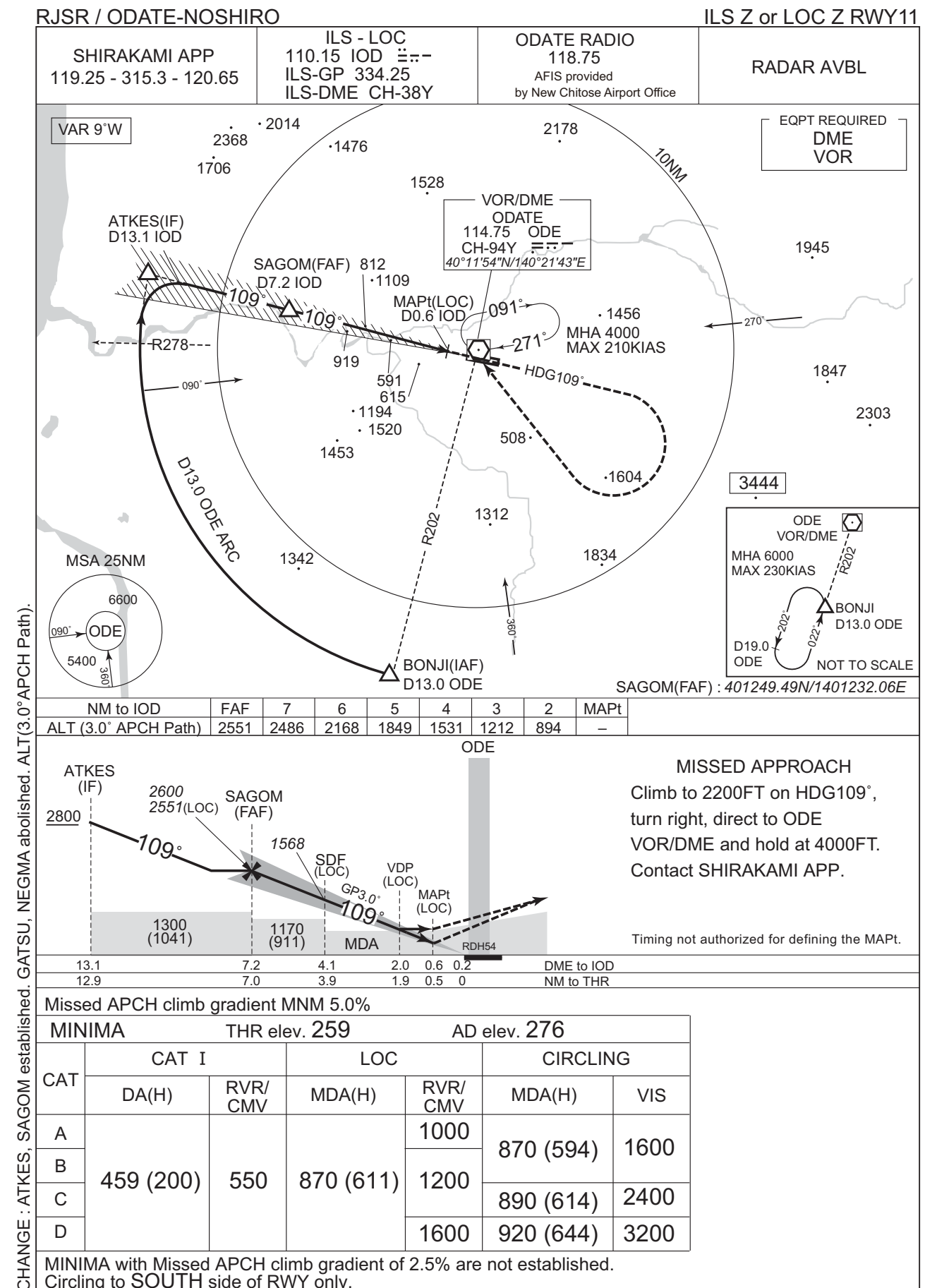
RNAV STAR RWY29

Waypoint Coordinates

Waypoint Identifier	Coordinates
BONJI	395913.4N / 1401752.5E
TEBAR	400729.7N / 1401034.6E
NOSSY	401321.8N / 1400854.6E

CHANGE : Waypoint Coordinates added.

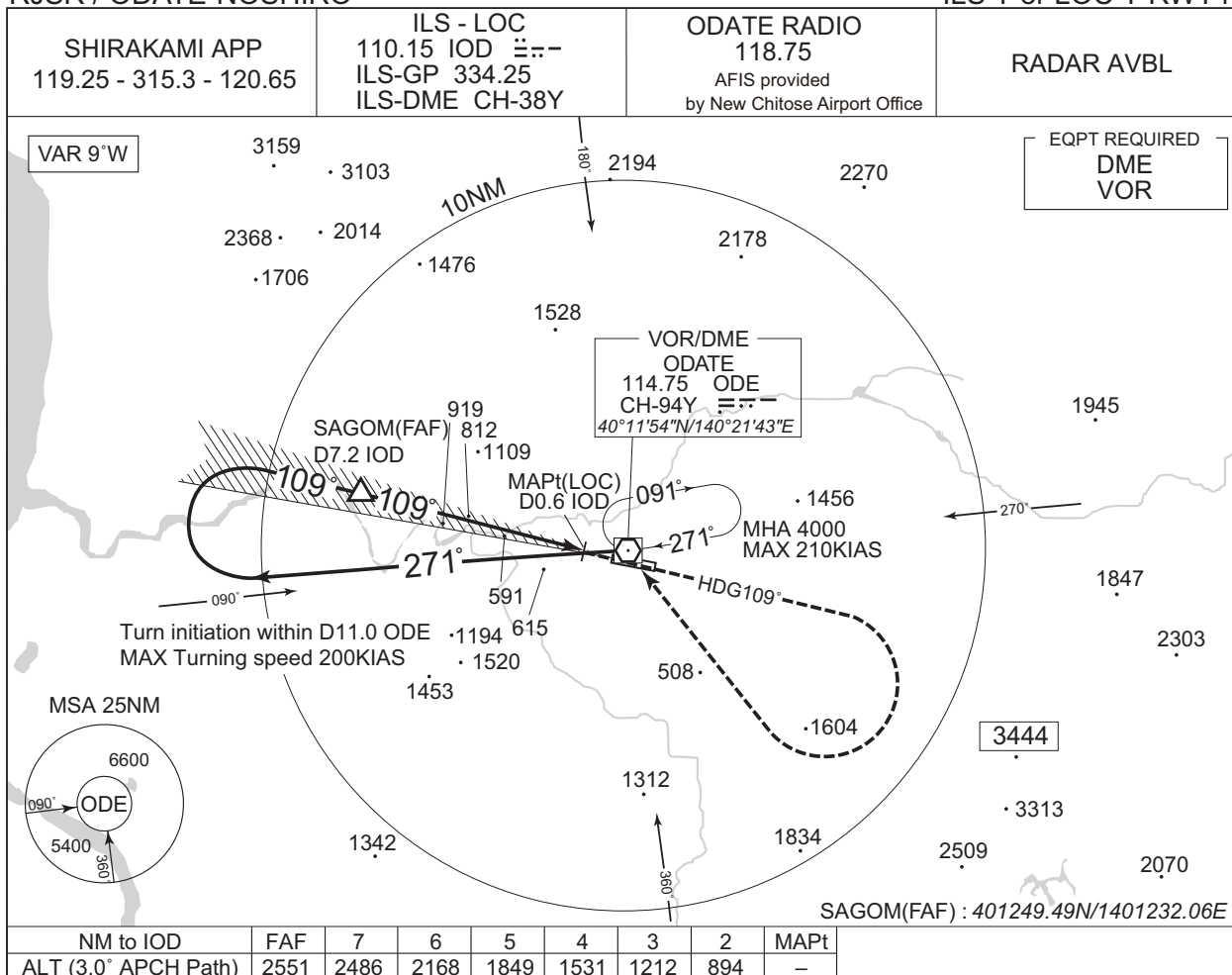
INSTRUMENT APPROACH CHART



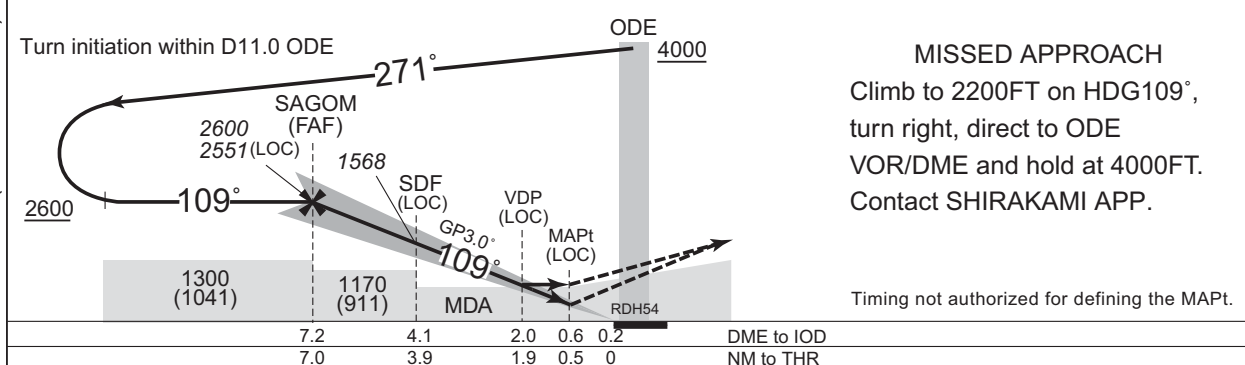
INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

ILS Y or LOC Y RWY11



CHANGE : SAGOM established. NEGMA abolished. ALT(3.0°APCH Path).

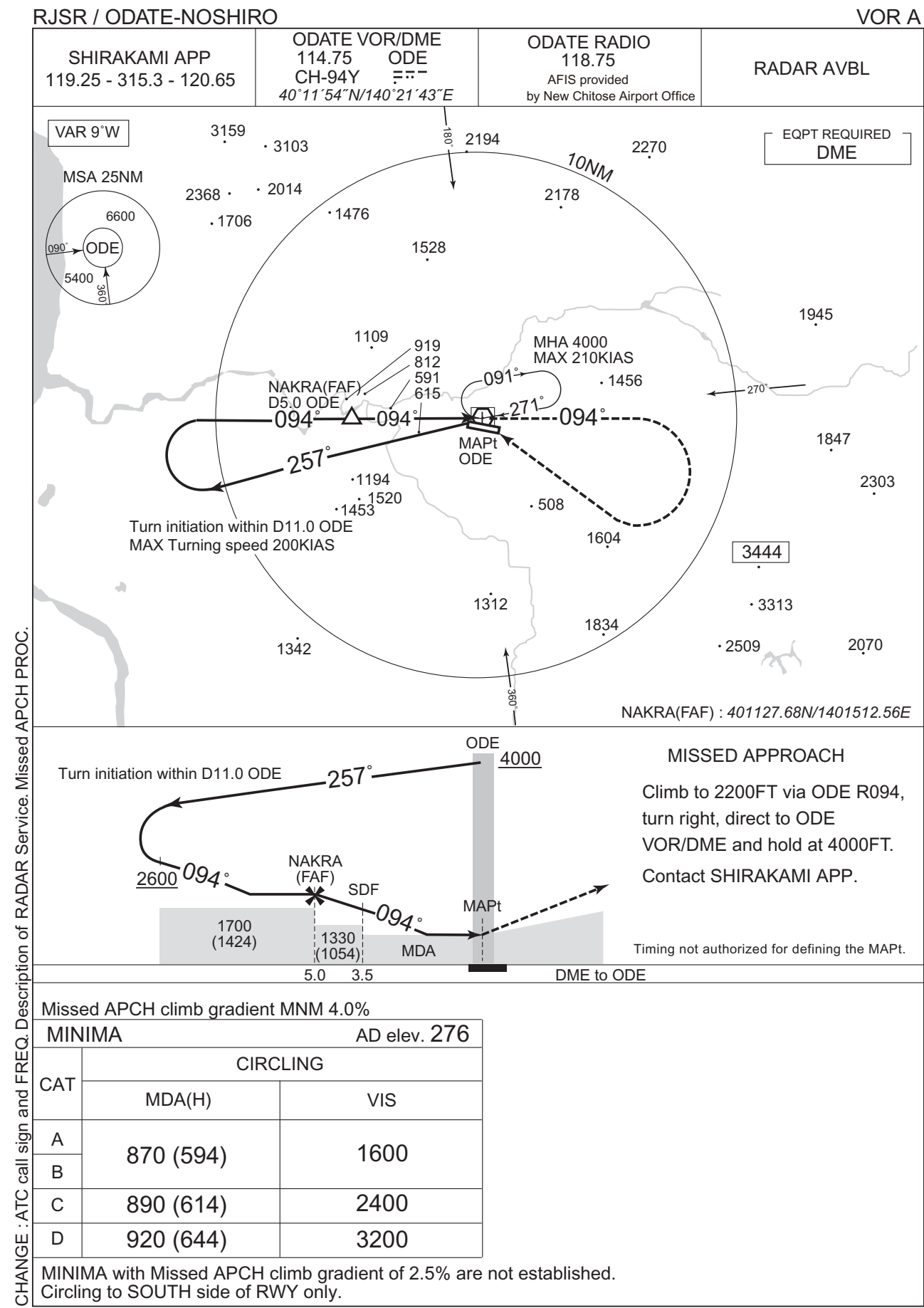


Missed APCH climb gradient MNM 5.0%

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.

RJSR / ODATE-NOSHIRO

SHIRAKAMI APP
119.25 - 315.3 - 120.65

RNP APCH

ODATE RADIO
118.75
AFIS provided by
New Chitose Airport Office

RADAR AVBL

Baro-VNAV not authorized below -15°C

VAR 9°W

10NM

25NM MSA

ARP: 401131N / 1402218E

ODATE (ODE) (MAHF)

SR172 (MATF)

SR171

OVLIR (FAF)

ATKES (IF)

SR170

BONJI (IAF)

BONJI

1MIN

MHA 6000
MAX 230KIAS

202°

022°

13.9
317°
(308.2°T)

109°

2.8

4.1

6.1

019°
(009.8°T)

109°
(099.9°T)

109°
(100.0°T)

099°

090°

360°

1467

1315

1455

1129

1095

1530

1607

1458

140° 20'E

140° 30'E

40° 10'N

NOT TO SCALE

086°

266°

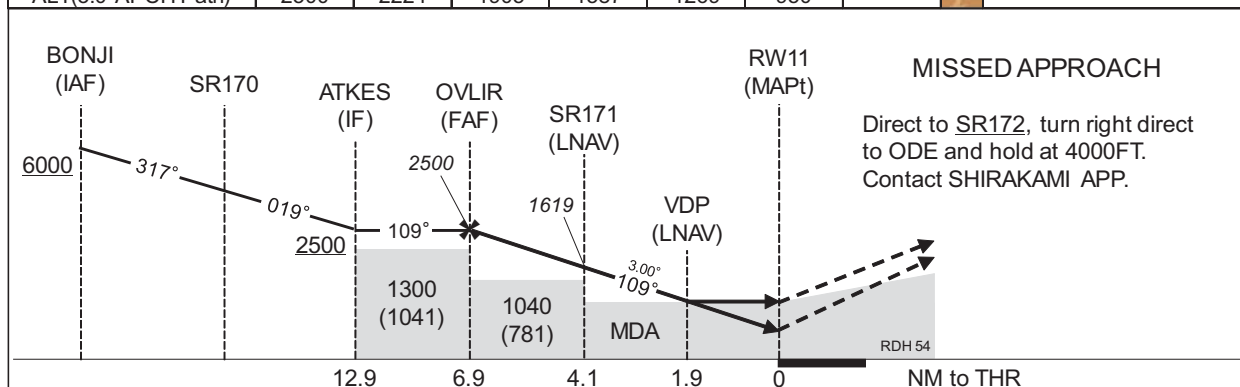
ODATE(ODE)

MHA 4000
MAX 210KIAS

BONJI (IAF)	395913.43N	1401752.53E
SR170	400748.62N	1400333.93E
ATKES (IF)	401350.33N	1400455.51E
OVLIR (FAF)	401247.64N	1401245.86E
SR171	401219.02N	1401619.20E
RW11 (MAPt)	401136.37N	1402135.51E
SR172 (MATF)	401103.96N	1402534.60E
ODATE(ODE) (MAHF)	401154.03N	1402142.68E

NM to Next Fix	FAF	6	5	4	3	2	MAPt
AI T(3.0°APCH Path)	2500	2224	1905	1587	1269	950	-

2300
1800
1300
800
AD elev.276
Contour Intervals



Missed APCH climb gradient MNM 5.0%						
MINIMA		THR elev. 259		AD elev. 276		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	755(496)	1000	870(611)	1000	870(594)	1600
B	765(506)	1200		1200		
C	775(516)				890(614)	2400
D	785(526)	1600		1600	920(644)	3200

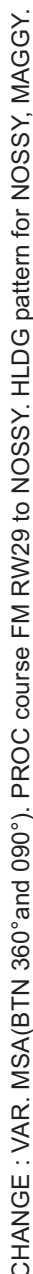
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to SOUTH side of RWY only.

CHANGE : New PROC.

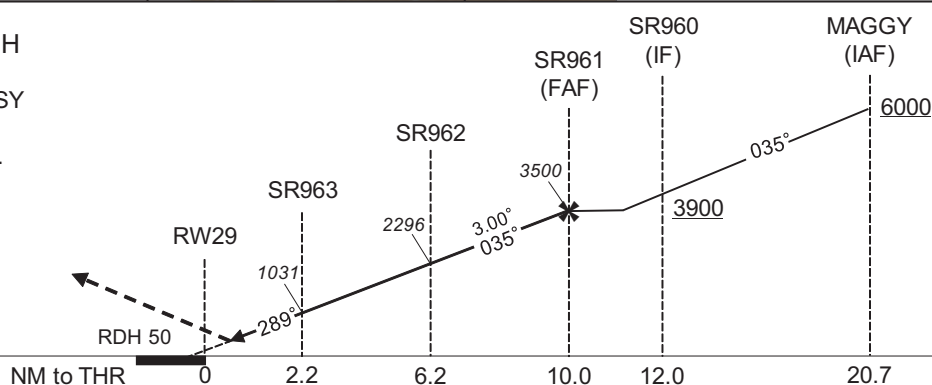
RJSR / ODATE-NOSHIRO

RNP Z RWY29(AR)

For uncompensated Baro-VNAV systems, procedure not authorized below -15°C / above 45°C



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 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	-	-	-9.2	-	-	+6000	-	-	-
002	TF	SR960	-	035 (026.1)	-9.2	8.7	-	+3900	-	-	1.0
003	TF	SR961	-	035 (026.1)	-9.2	2.0	-	3500	-	-	1.0
004	TF	SR962	-	035 (026.1)	-9.2	3.8	-	2296	-	-3.00	0.27 0.30
005	RF Center: SRRF1 r=2.15NM	SR963	-	-	-9.2	4.0	L	1031	-	-3.00	0.27 0.30
006	TF	RW29	Y	289 (280.1)	-9.2	2.2	-	342	-	-3.00/50	0.27 0.30
007	TF	NOSSY	-	290 (280.3)	-9.2	10.9	-	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	MAGGY	035 (026.0)	-9.2	1.0 (-14000)	R	6000	FL140	-230 (-14000)	1.0
Hold	NOSSY	087 (077.6)	-9.2	1.0 (-14000)	R	4000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

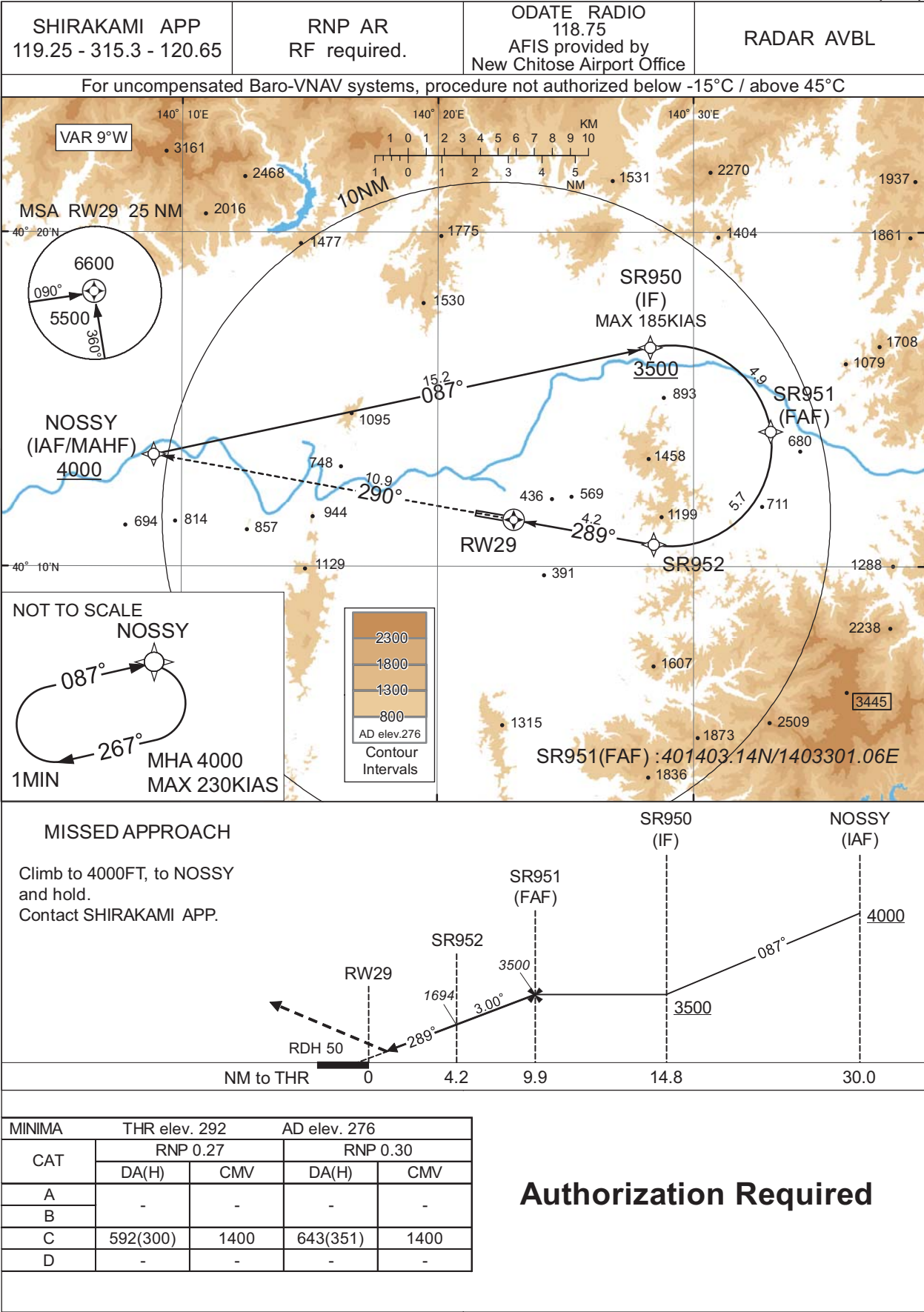
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MAGGY	395456.61N / 1401926.80E	SRRF1	400855.54N / 1402516.24E
SR960	400247.11N / 1402427.29E		
SR961	400434.91N / 1402536.32E		
SR962	400758.60N / 1402746.93E		
SR963	401102.48N / 1402545.54E		
RW29	401125.10N / 1402258.78E		
NOSSY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

CHANGE : VAR. PROC course FM RW29 to NOSSY. HLDG pattern for MAGGY, NOSSY.

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNP Y RWY29(AR)



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	-	-	-9.2	-	-	+4000	-	-	-
002	TF	SR950	-	087 (077.7)	-9.2	15.2	-	+3500	-185	-	1.0
003	RF Center: SRRF2 r=3.00NM	SR951	-	-	-9.2	4.9	R	3500	-	-	1.0
004	RF Center: SRRF2 r=3.00NM	SR952	-	-	-9.2	5.7	R	1694	-	-3.00	0.27 0.30
005	TF	RW29	Y	289 (280.1)	-9.2	4.2	-	342	-	-3.00/50	0.27 0.30
006	TF	NOSSY	-	290 (280.3)	-9.2	10.9	-	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	NOSSY	087 (077.6)	-9.2	1.0 (-14000)	R	4000	FL140	-230 (-14000)	1.0

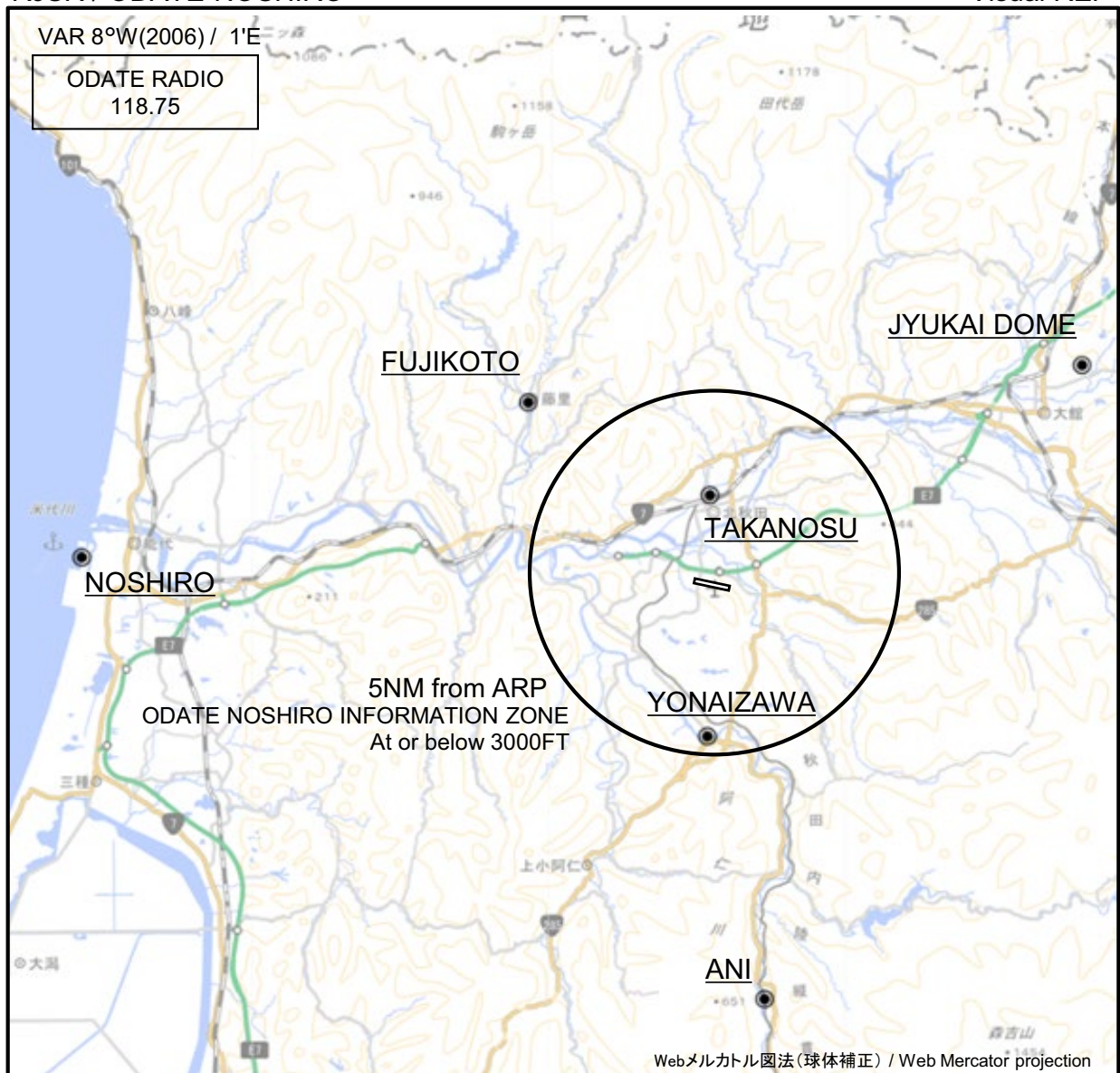
Waypoint Coordinates

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 : VAR. PROC course. HLDG pattern for NOSSY.

RJSR / ODATE-NOSHIRO

Visual REP



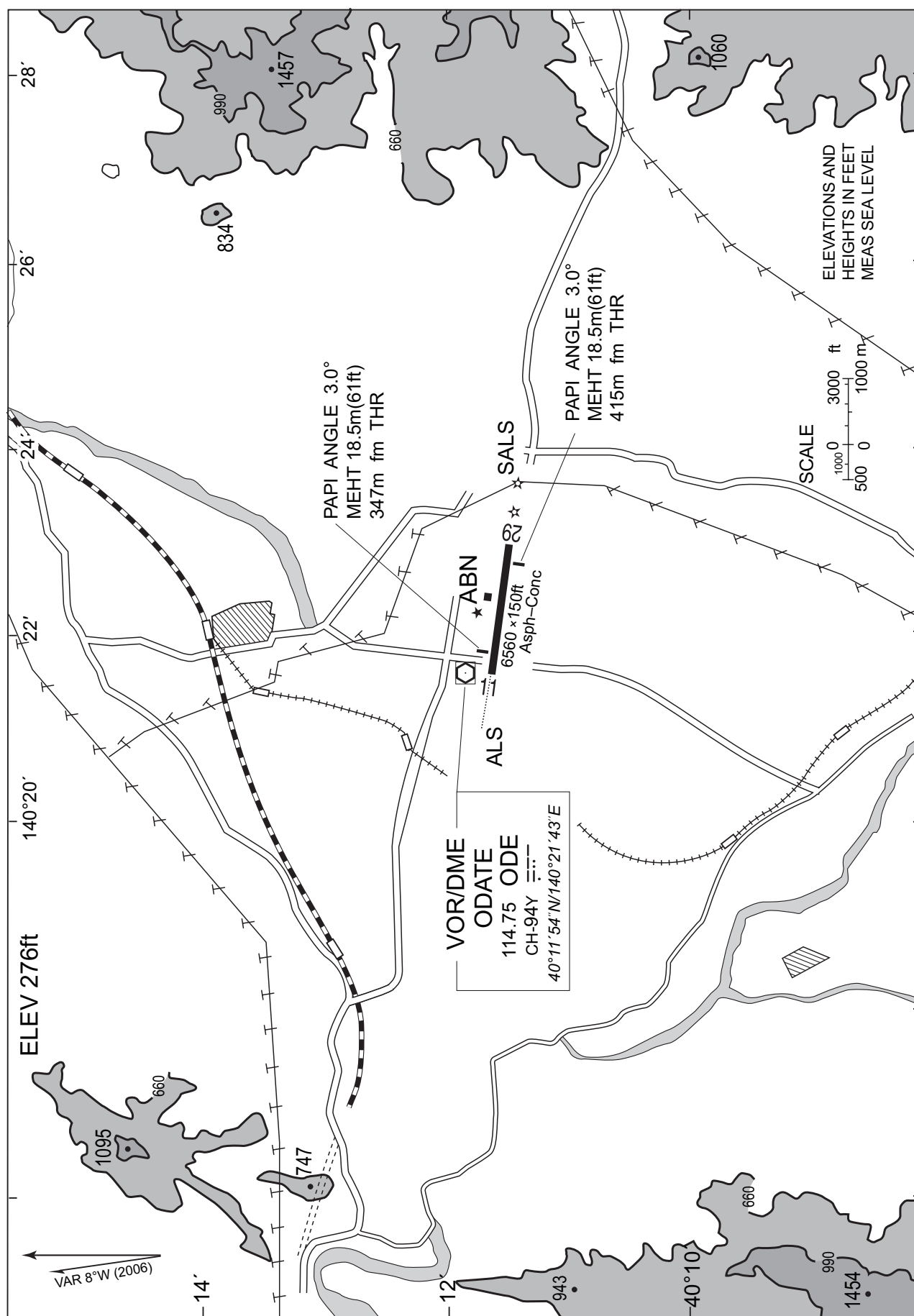
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

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

RJSR / ODATE-NOSHIRO

LDG CHART



RJSR / ODATE-NOSHIRO

Minimum Vectoring Altitude CHART

