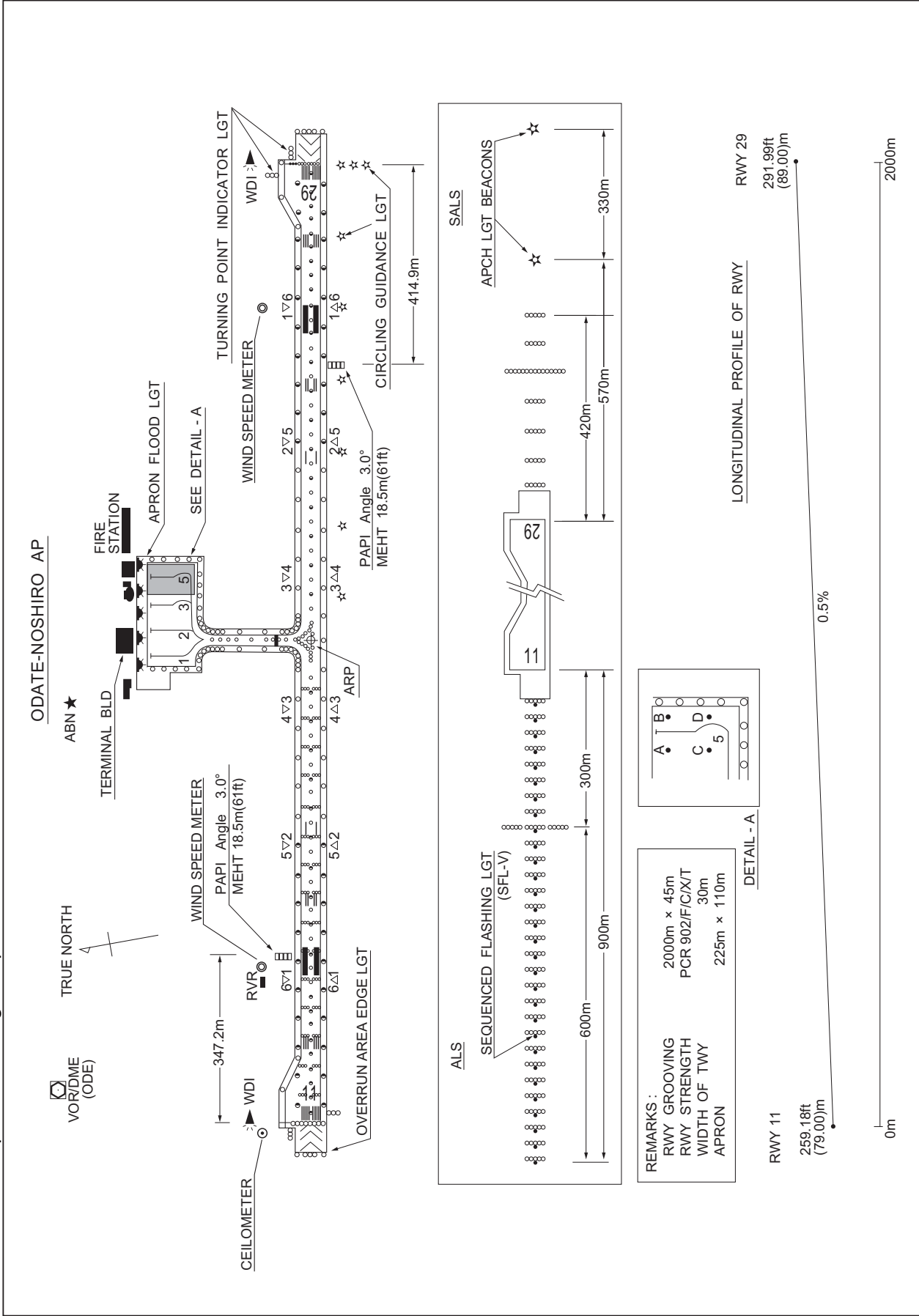


RJSR / ODATE-NOSHIRO

AD CHART

CHANGE : Description of strength of pavement.



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.

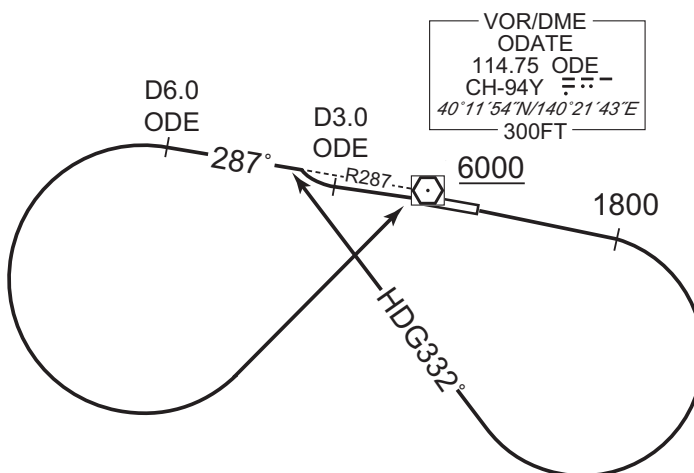
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

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

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.

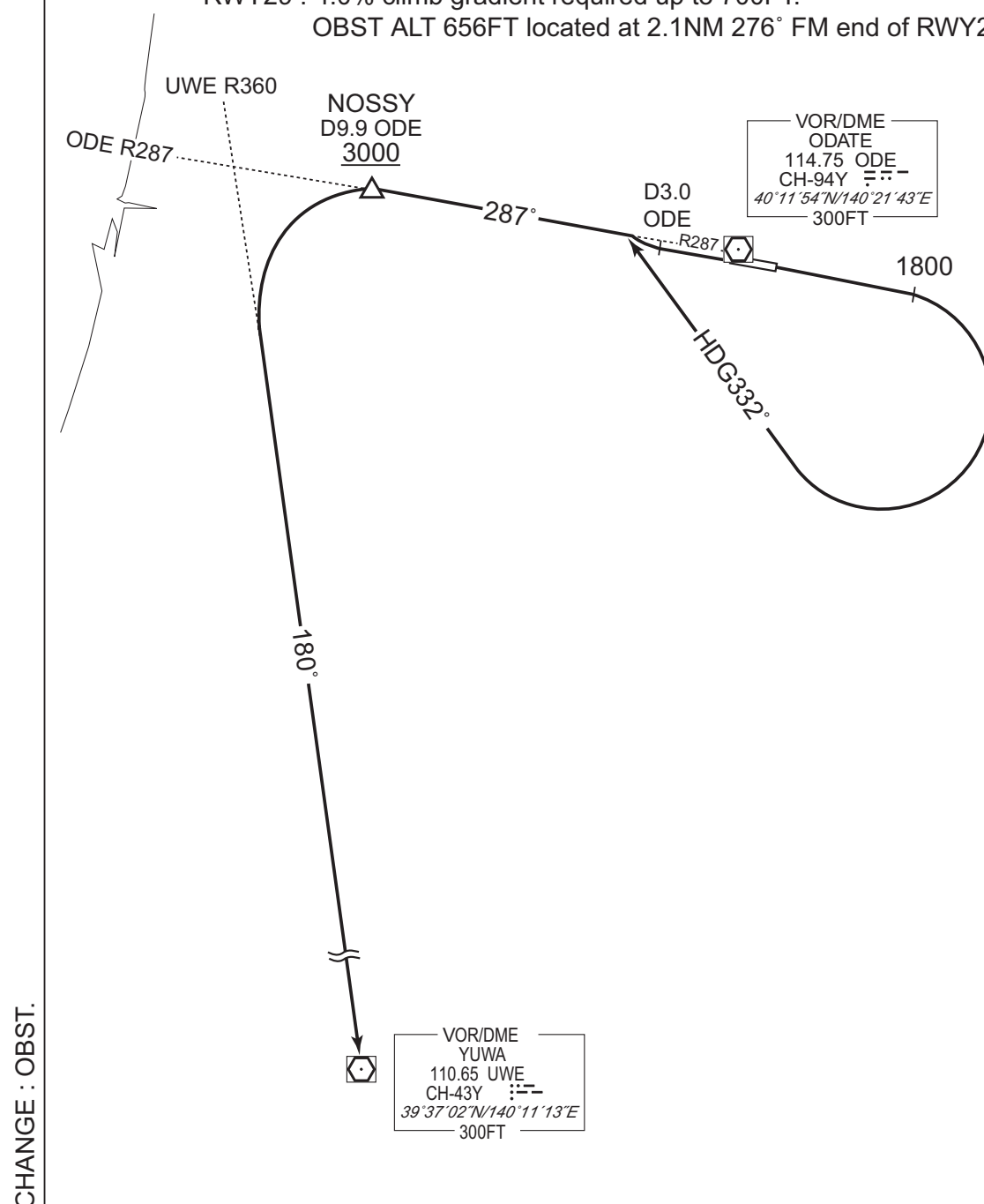
Note RWY11 : 5.0% climb gradient required up to 1800FT.

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

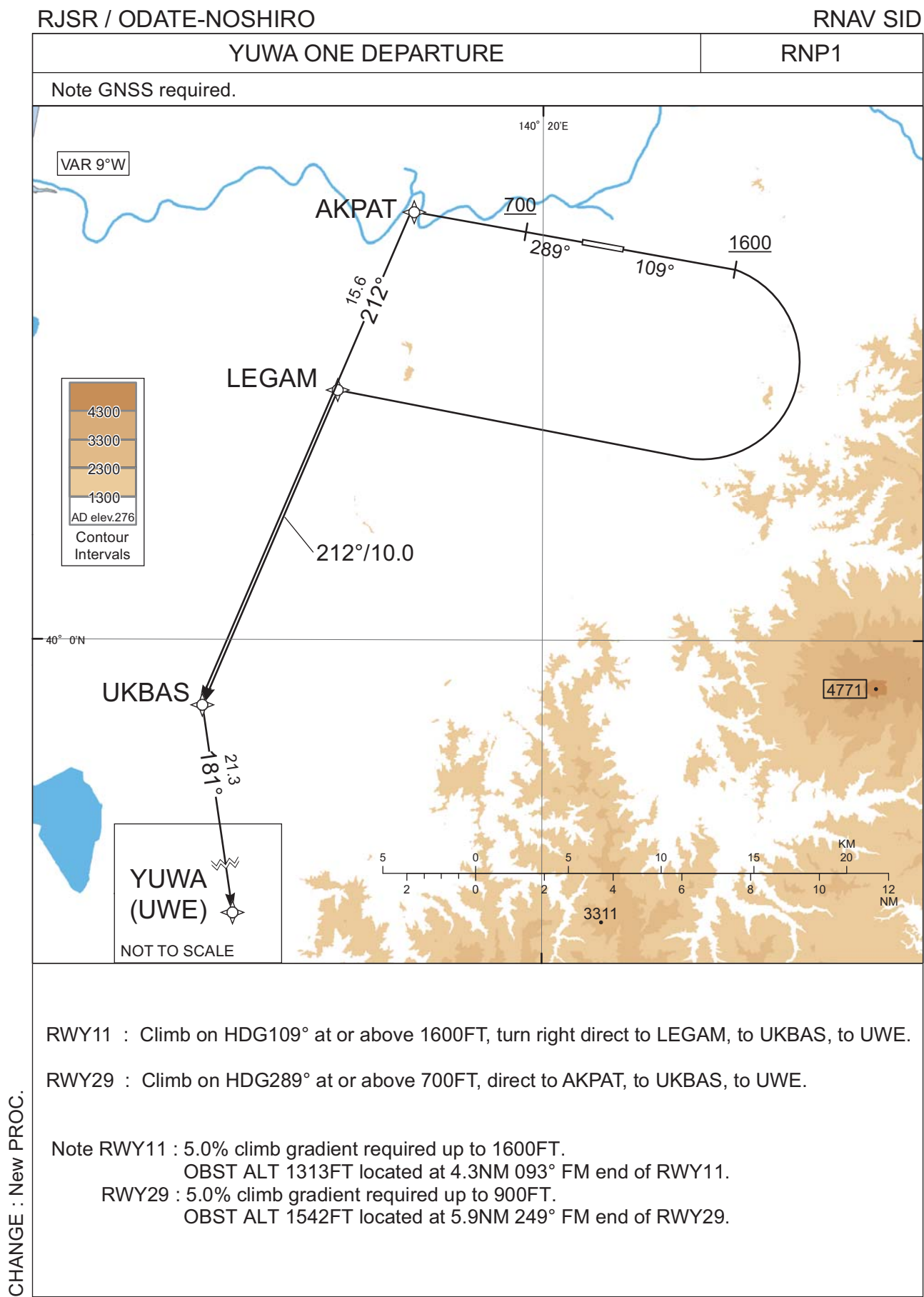
OBST ALT 2100FT located at 9.5NM 138° FM end of RWY11.

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

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



STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

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

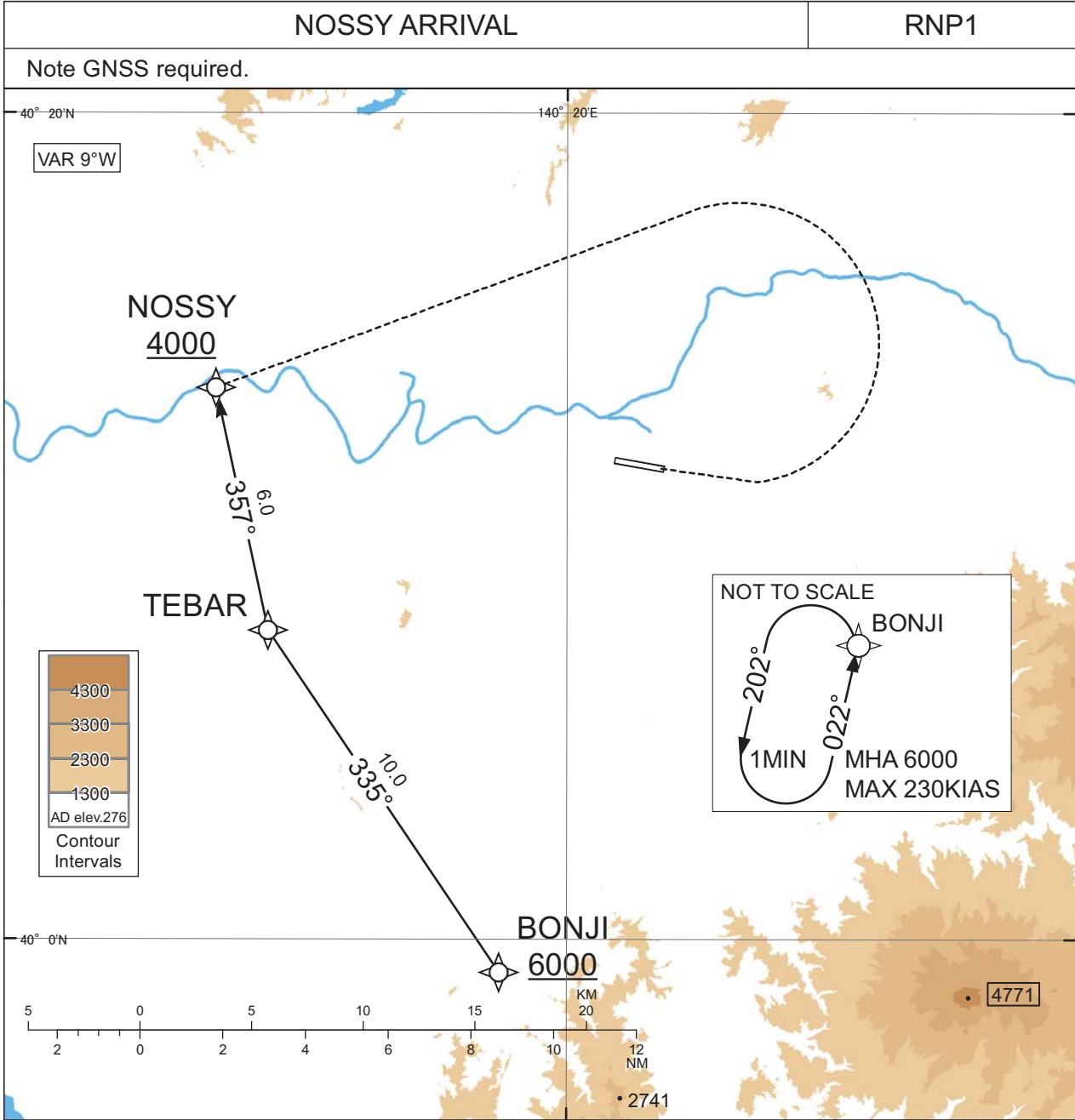
Waypoint Identifier	Coordinates
LEGAM	400717.6N / 1401213.9E
AKPAT	401228.7N / 1401506.9E
UKBAS	395806.7N / 1400708.7E
UWE	393701.7N / 1401113.0E

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

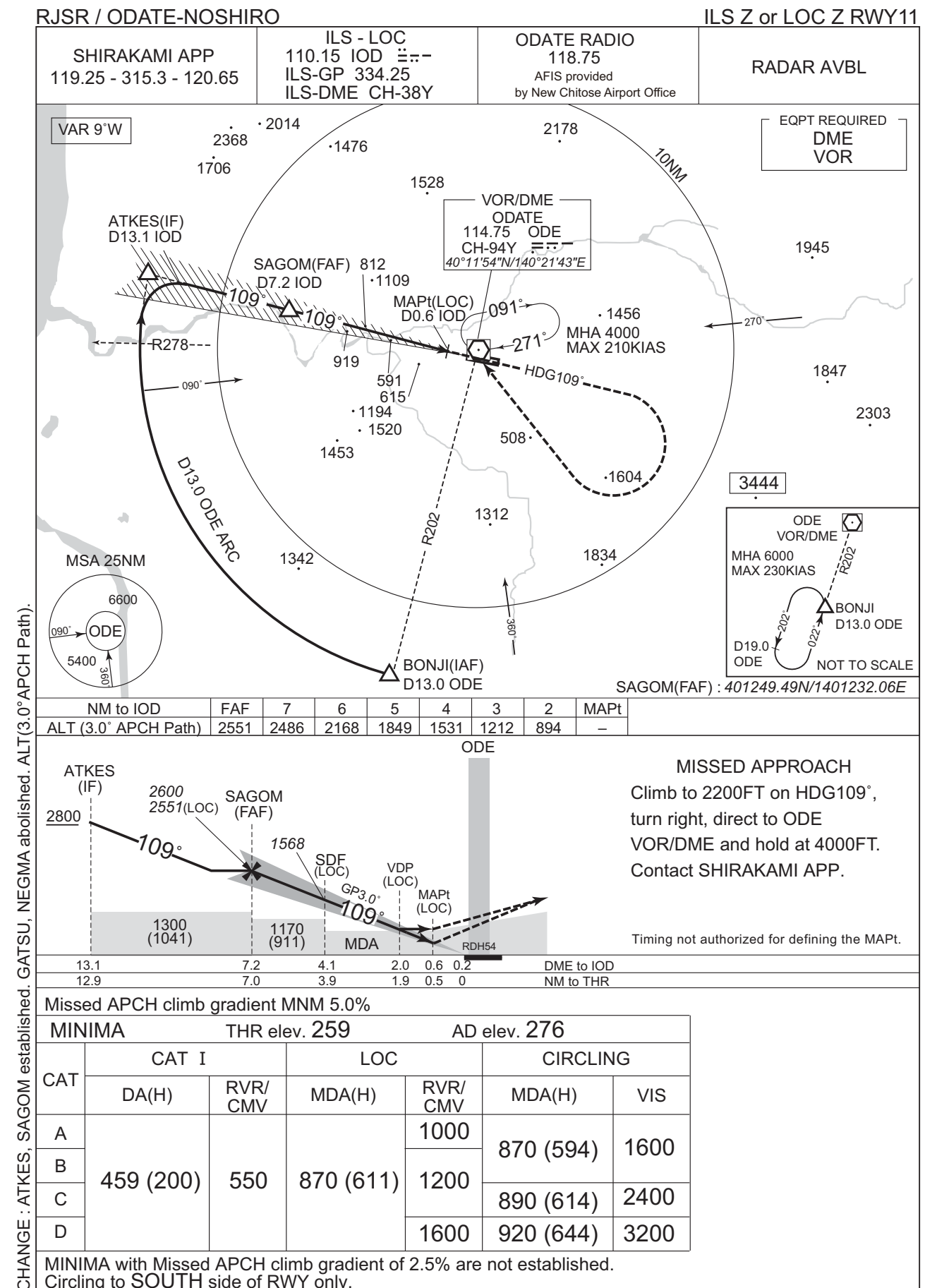
RNAV STAR RWY29

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

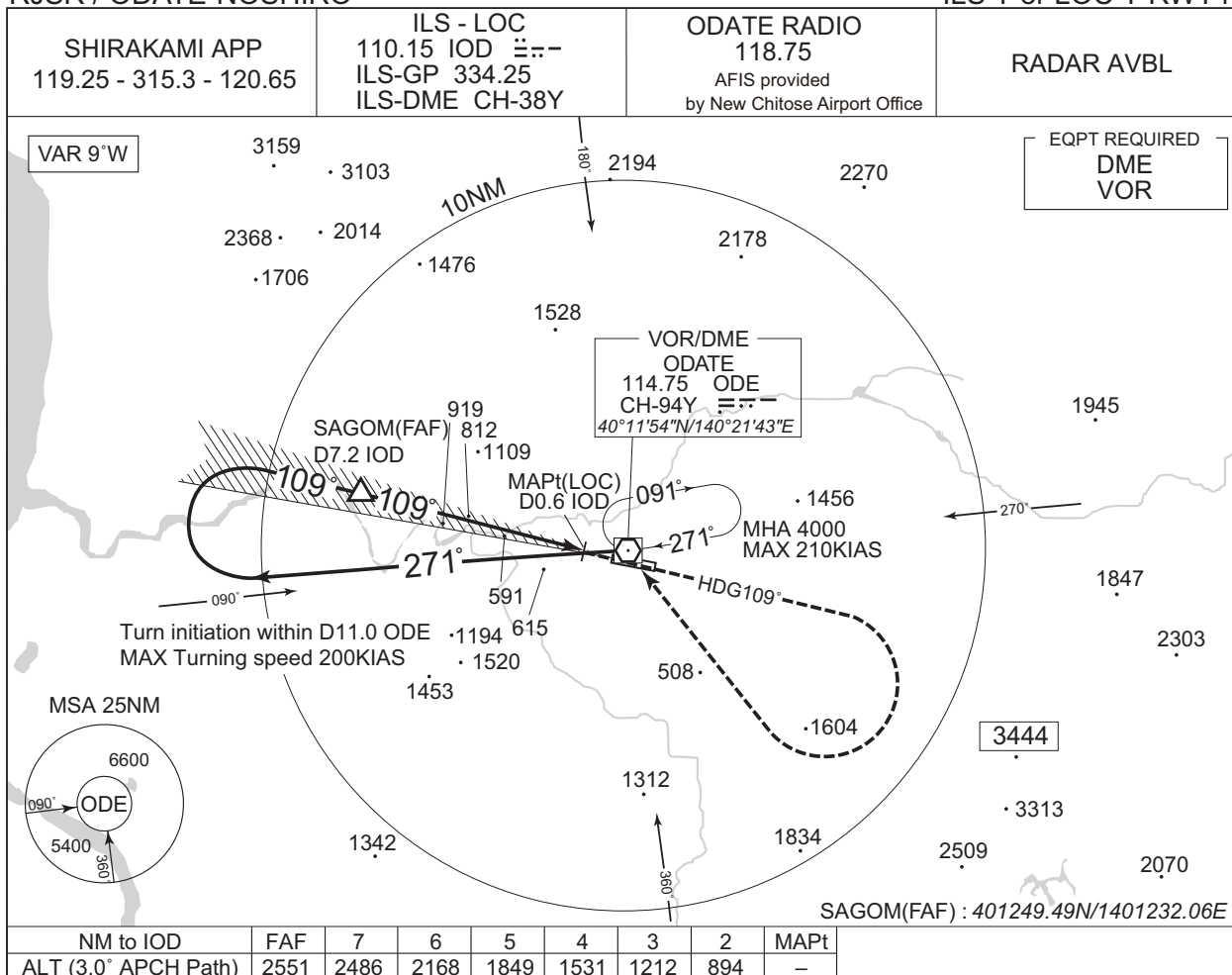




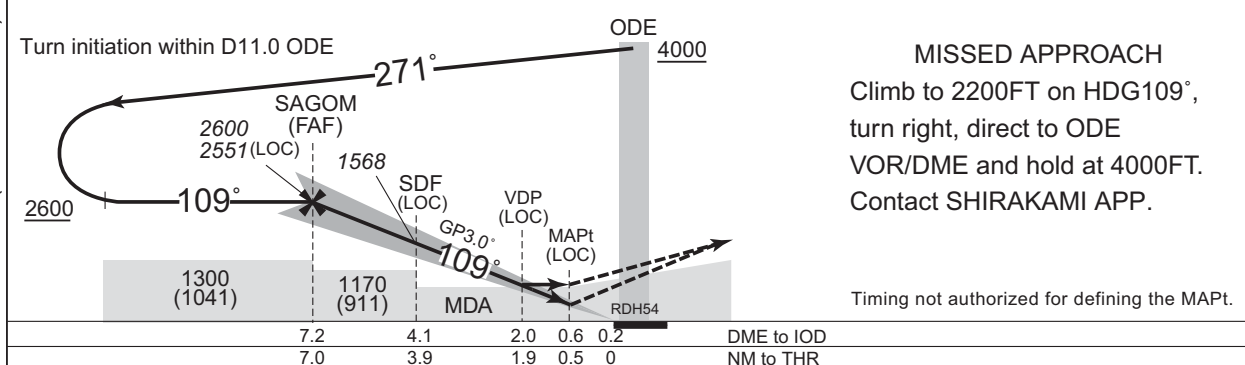
## INSTRUMENT APPROACH CHART

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.

## RJSR / ODATE-NOSHIRO

VOR A



MINIMA AD elev. 276

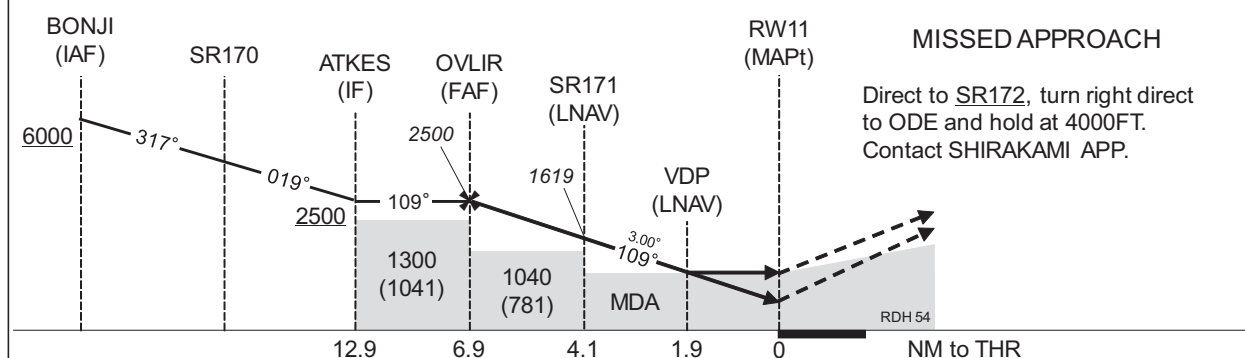
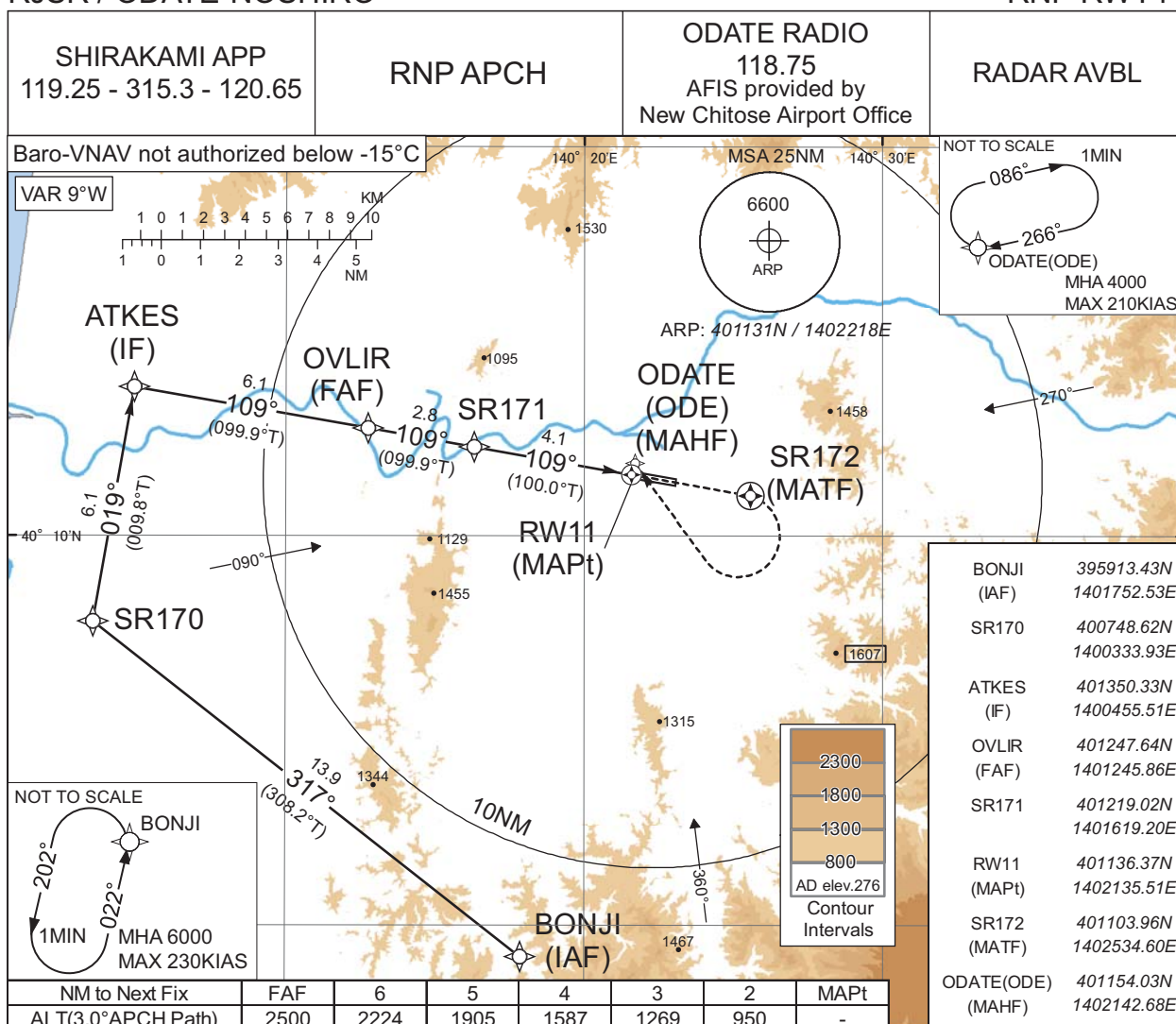
CAT	CIRCLING	
	MDA(H)	VIS
A	870 (594)	1600
B		
C	890 (614)	2400
D	920 (644)	3200

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

## INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNP RWY11



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	890(614)	2400
C	775(516)				920(644)	3200
D	785(526)	1600		1600	920(644)	3200

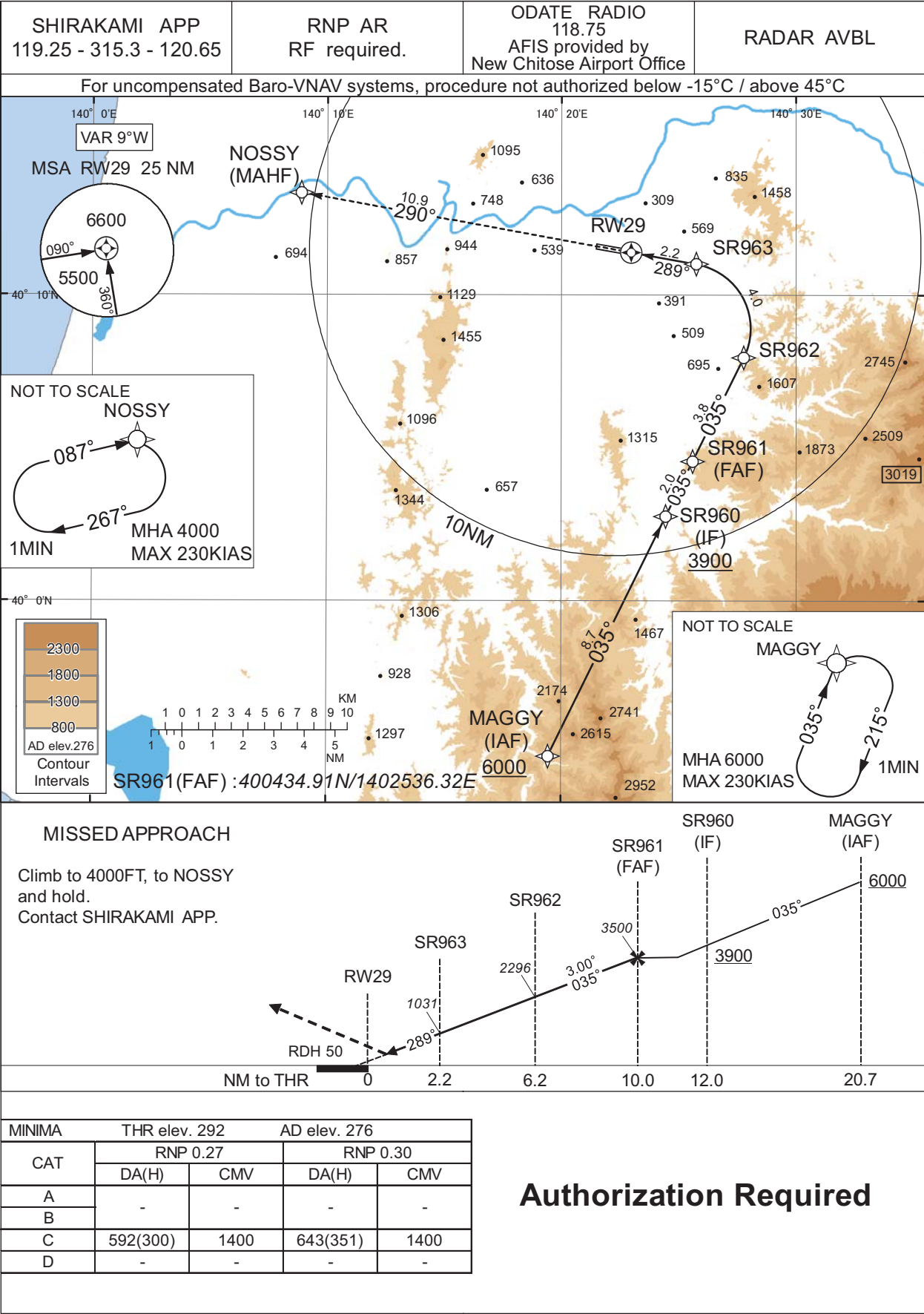
MINIMA with Missed APCH climb gradient of 2.5% are not established.

Circling to SOUTH side of RWY only.

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNP Z RWY29(AR)



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		

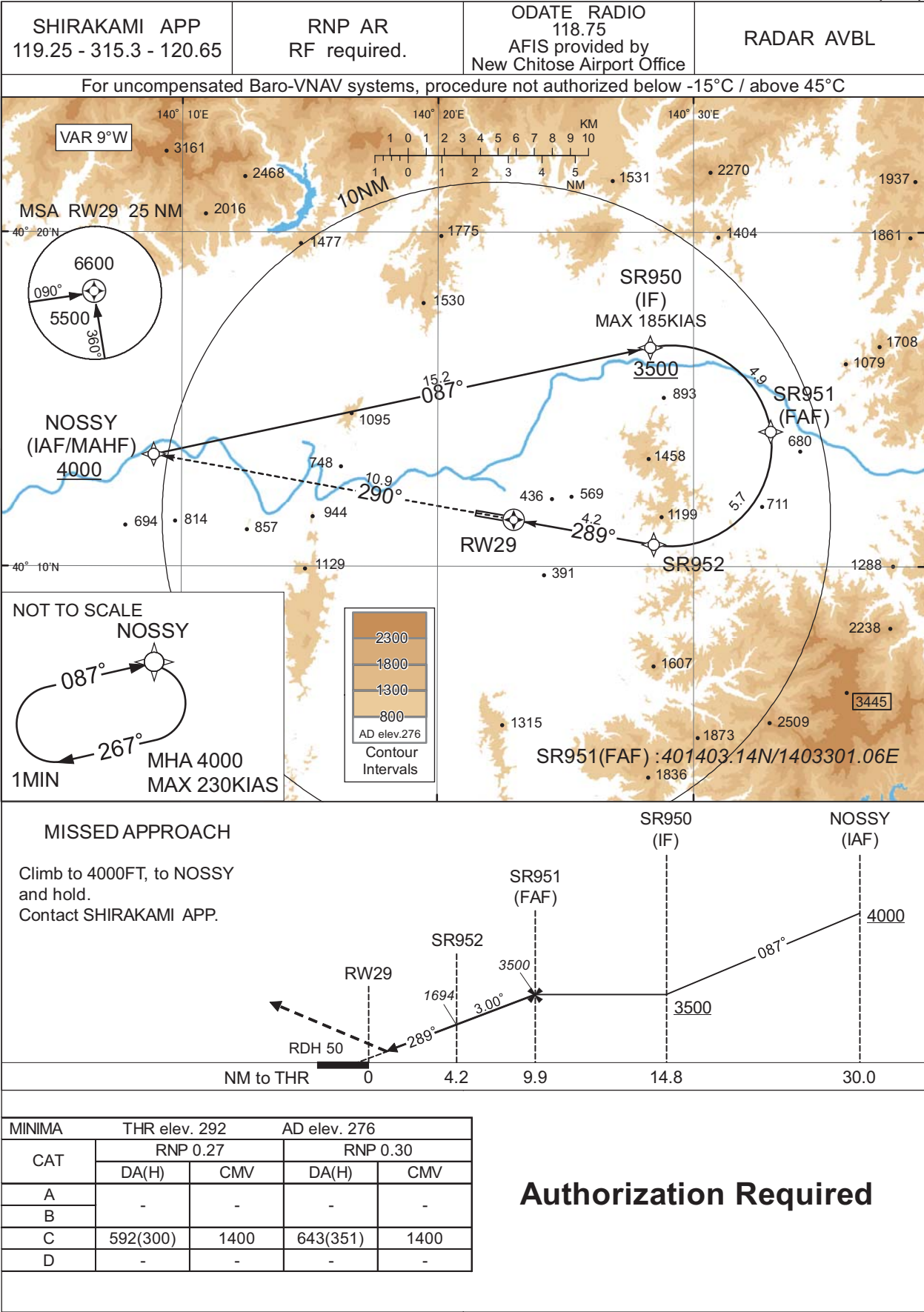
CHANGE : VAR. PROC course FM RW29 to NOSSY. HLDG pattern for MAGGY, NOSSY.



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

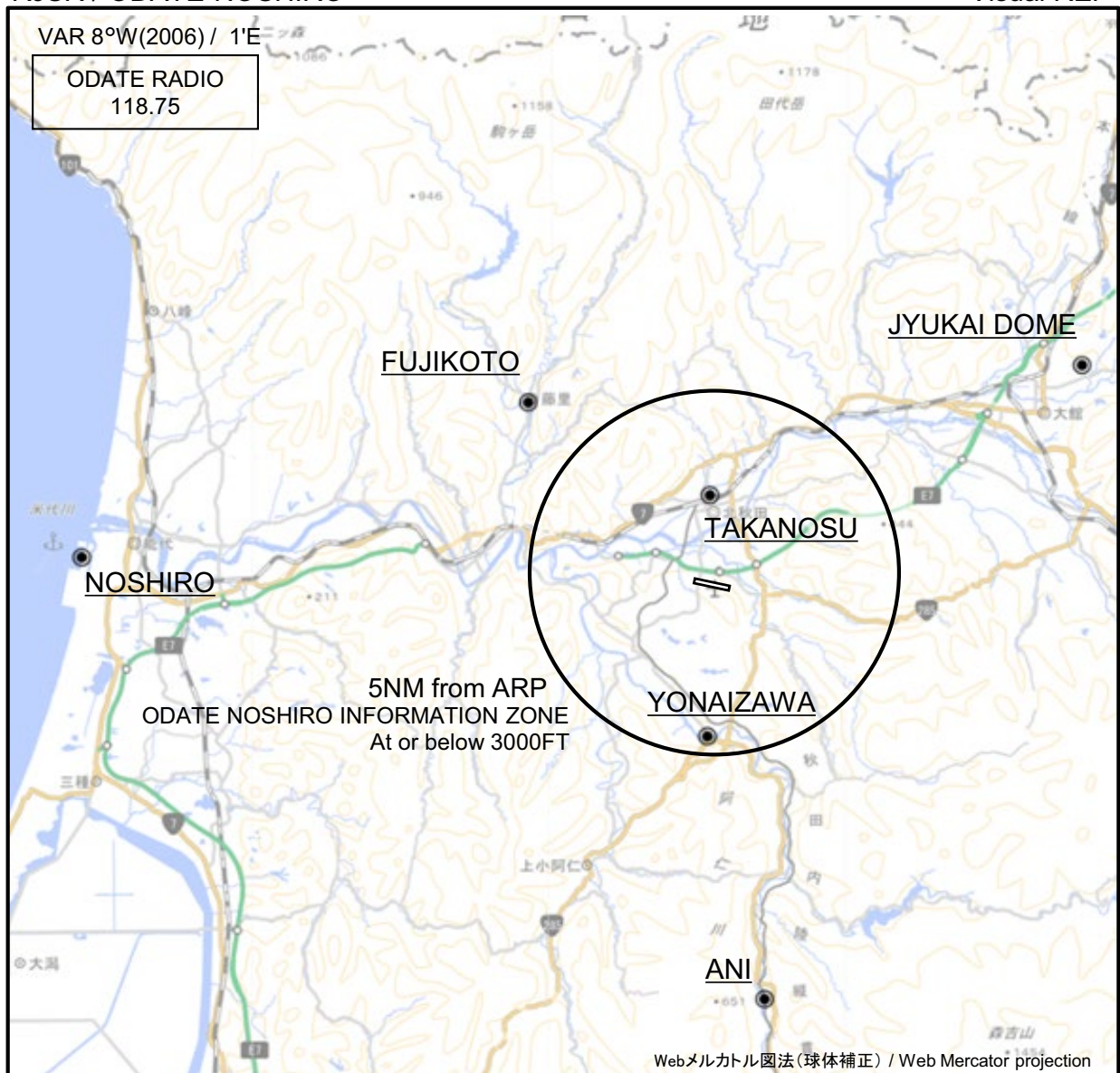
Waypoint Coordinates

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).

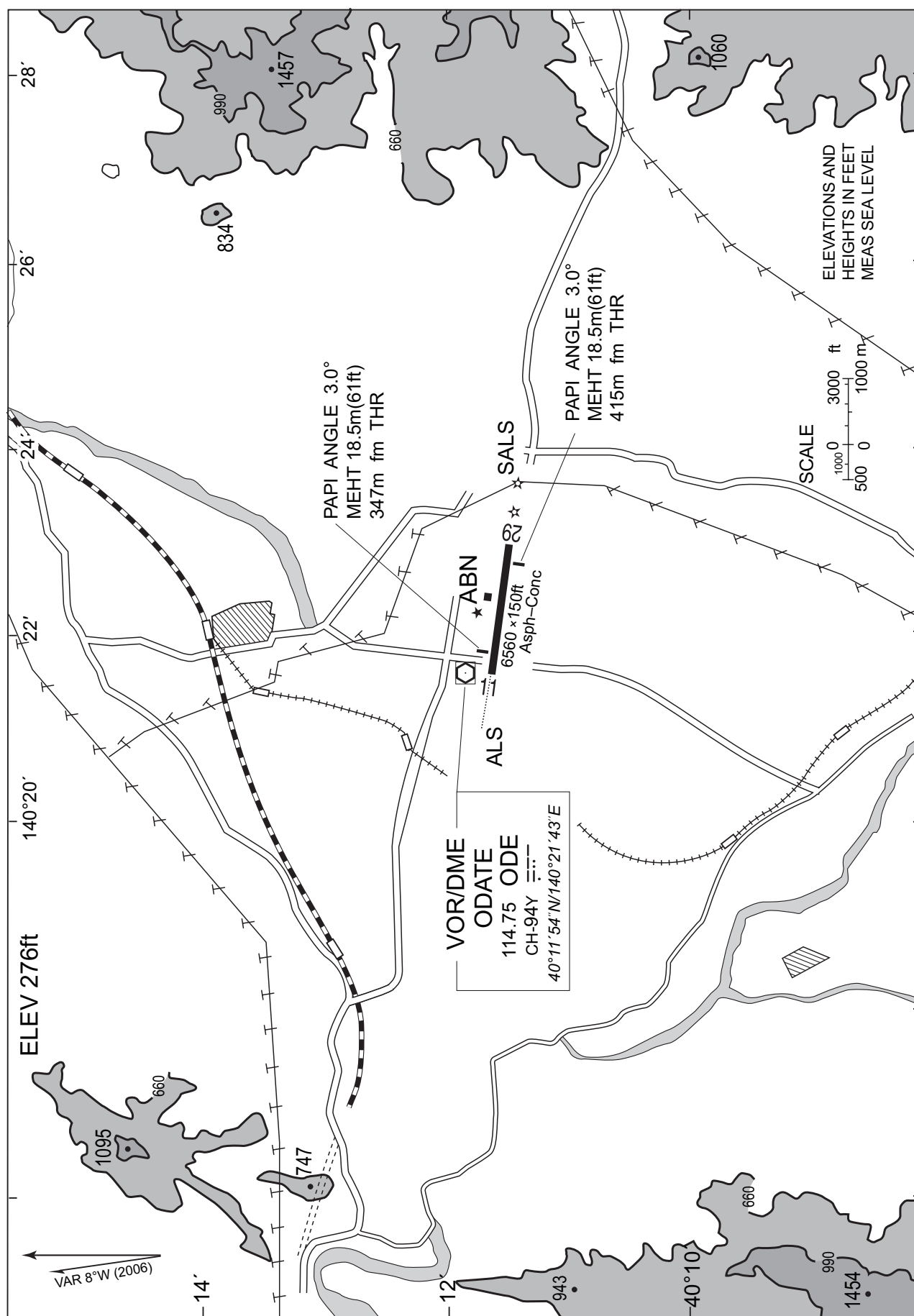
CHANGE : Call sign(REMOTE→RADIO).

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



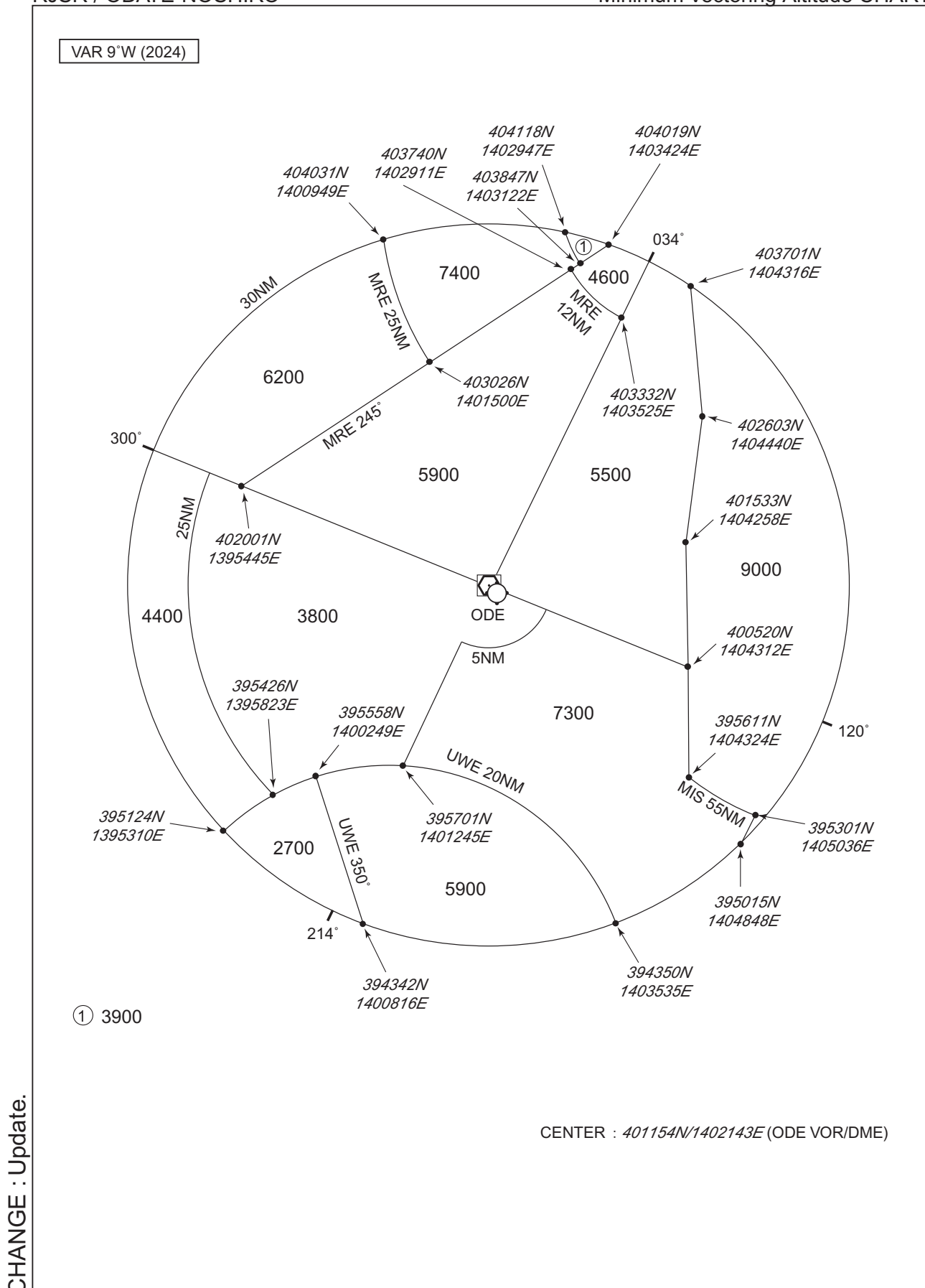
RJSR / ODATE-NOSHIRO

LDG CHART



RJSR / ODATE-NOSHIRO

Minimum Vectoring Altitude CHART



CHANGE : Update.