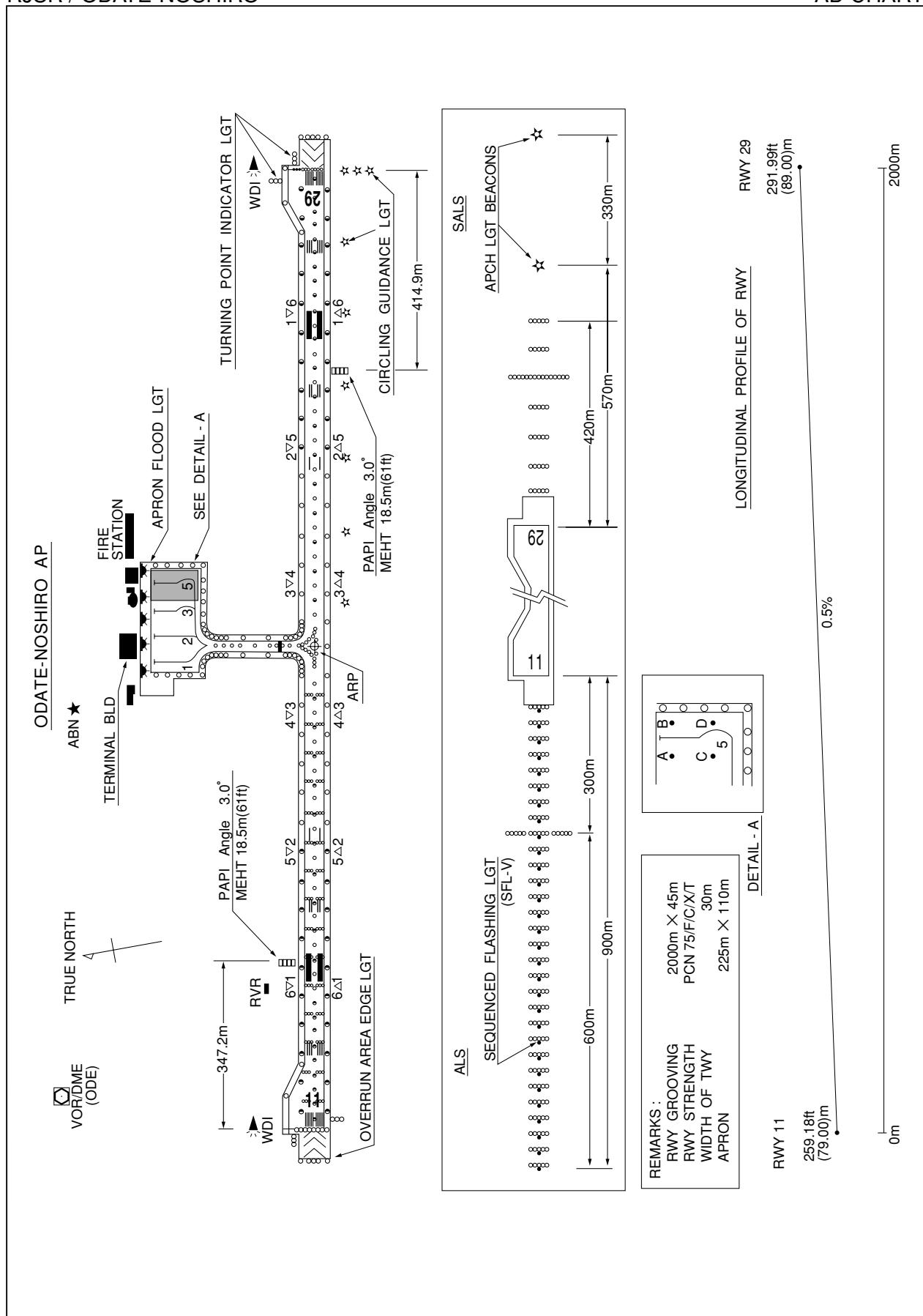


RJSR / ODATE-NOSHIRO

AD CHART



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.

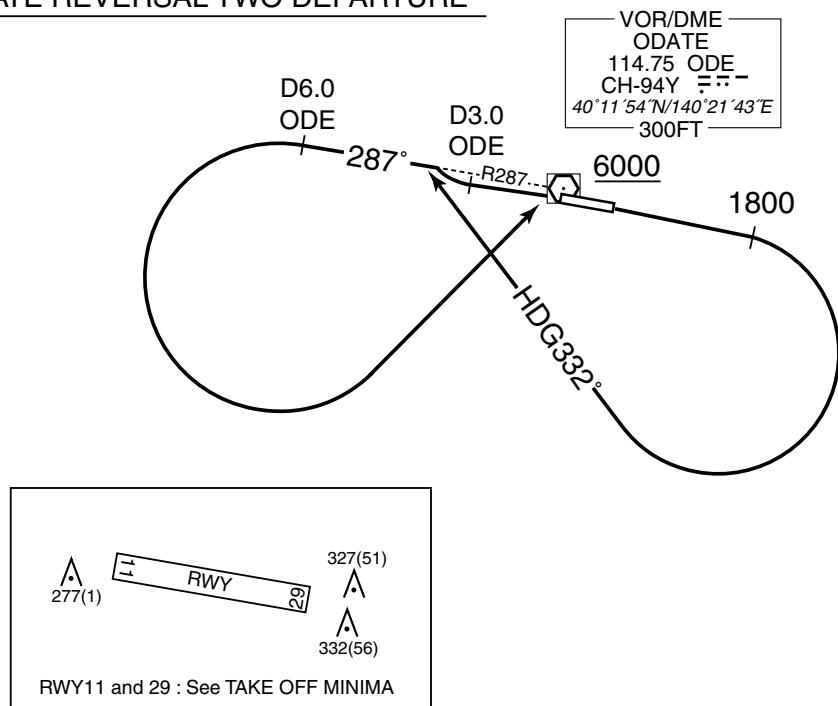
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

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.

ODATE REVERSAL TWO DEPARTURE



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.

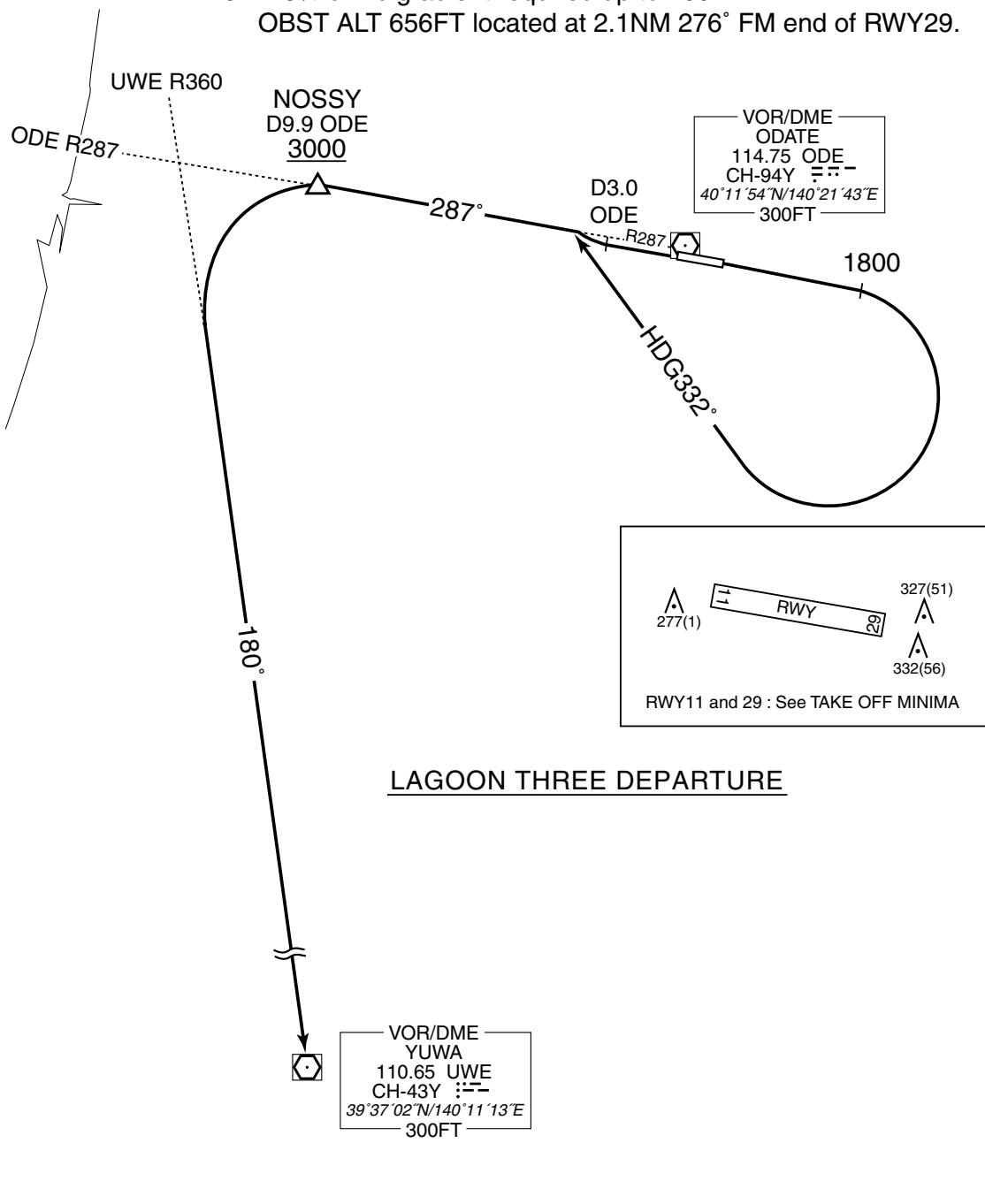
Note RWY11 : 5.0% climb gradient required up to 1800FT.

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.

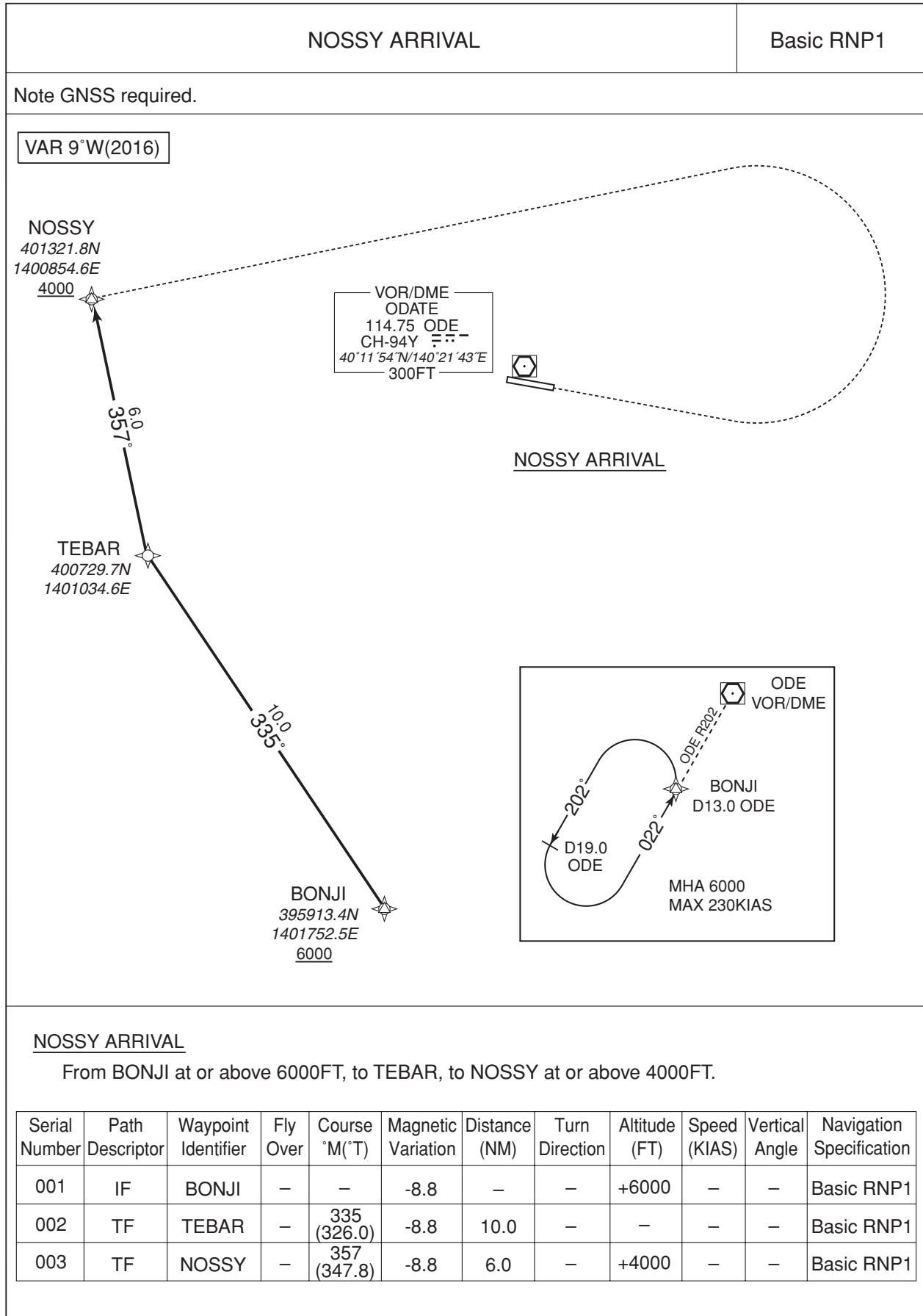
OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.



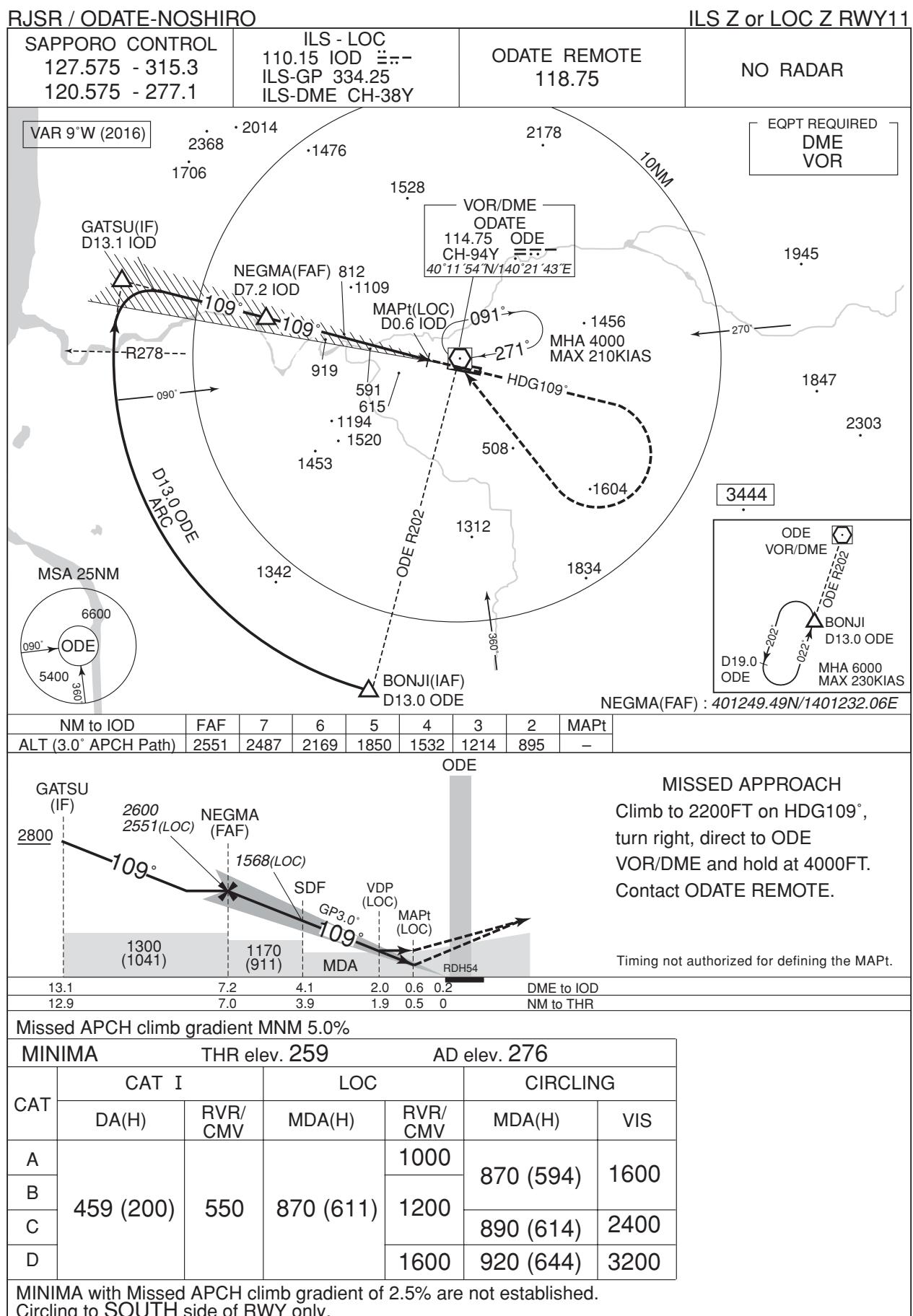
STANDARD ARRIVAL CHART - INSTRUMENT

RJSR / ODATE-NOSHIRO

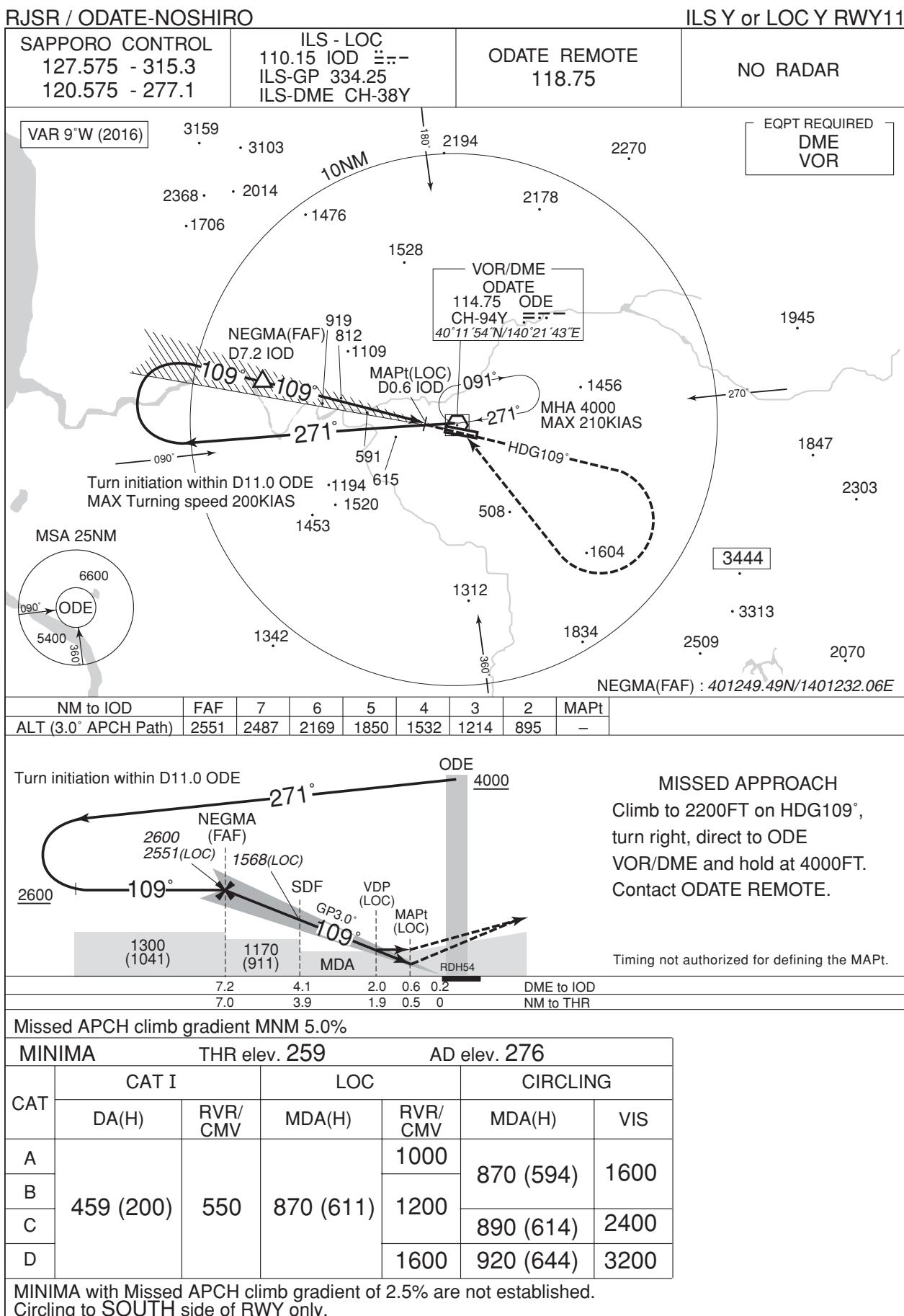
RNAV STAR RWY29



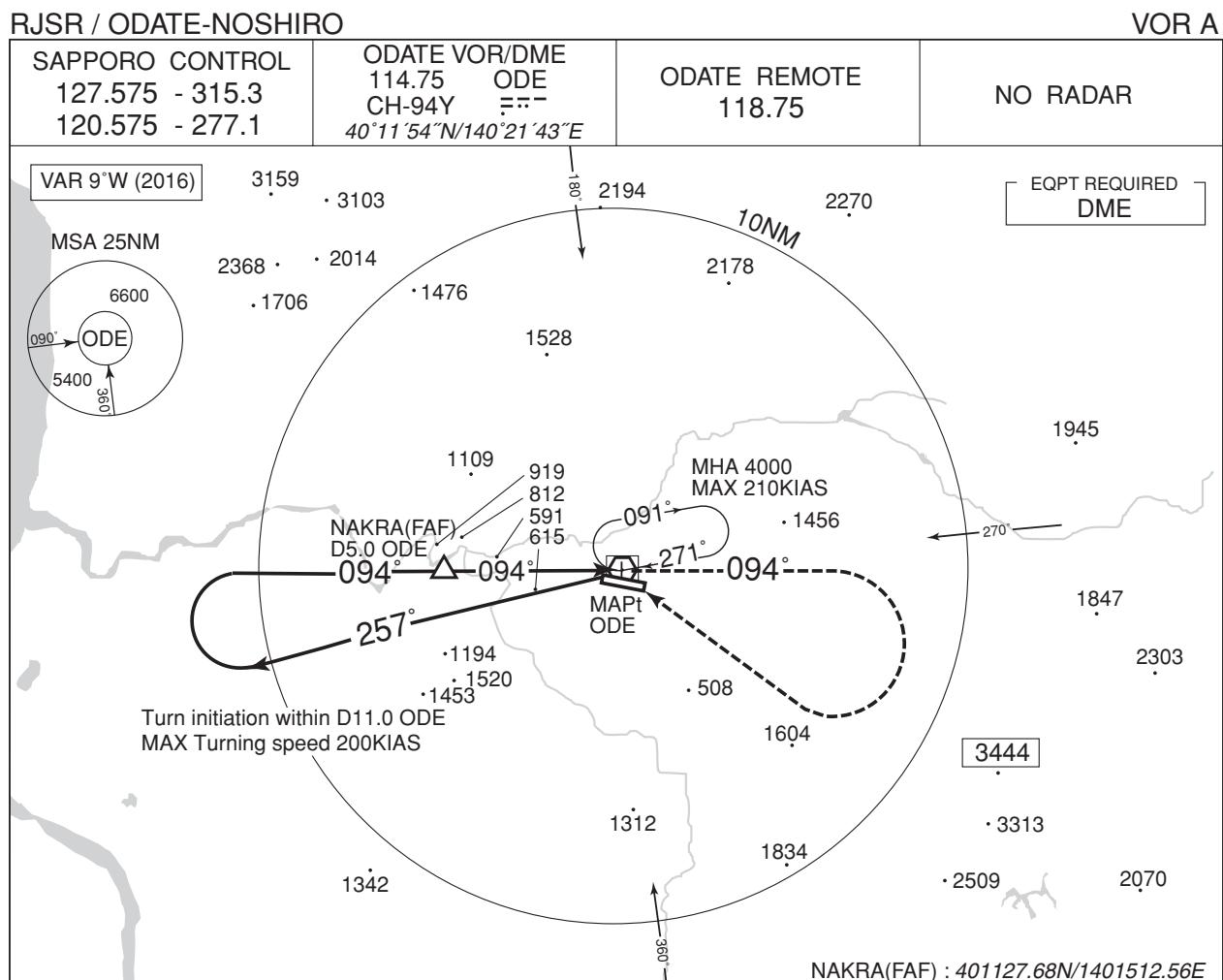
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



Missed APCH climb gradient MNM 4.0%

MINIMA		AD elev. 276
CAT	CIRCLING	
	MDA(H)	VIS
A	870 (594)	1600
B	890 (614)	2400
C	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

RNAV(RNP) Z RWY29

SAPPORO CONTROL 127.575 - 315.3 120.575 - 277.1	GNSS and RF required.	ODATE REMOTE 118.75	NO RADAR
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For uncompensated Baro-VNAV systems, procedure not authorized below -15°C / above 45°C

VAR 8°W (2011)

NOSSY

NOT TO SCALE

NOSSY
(MAHF)
P. 1/25

VOR/DME
ODATE
114.75 ODE
CH-94Y =-
40°11'54"N/140°21'43"E

D16.0 287° ODF MHA4000
MAX 230KIA

MSA RW29 25NM

SR961(FAF) : 400434.91N/1402536.32E

MISSED APPROACH

Climb to 4000FT, to NOSSY and hold.

Contact ODATE REMOTE.

NM to THR		0	2.2	6.2	10.0	12.0	20.7		
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	-	-	-	-					

RNP AR
Special Authorization Required

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Z RWY29

RNAV(RNP) Z RWY29

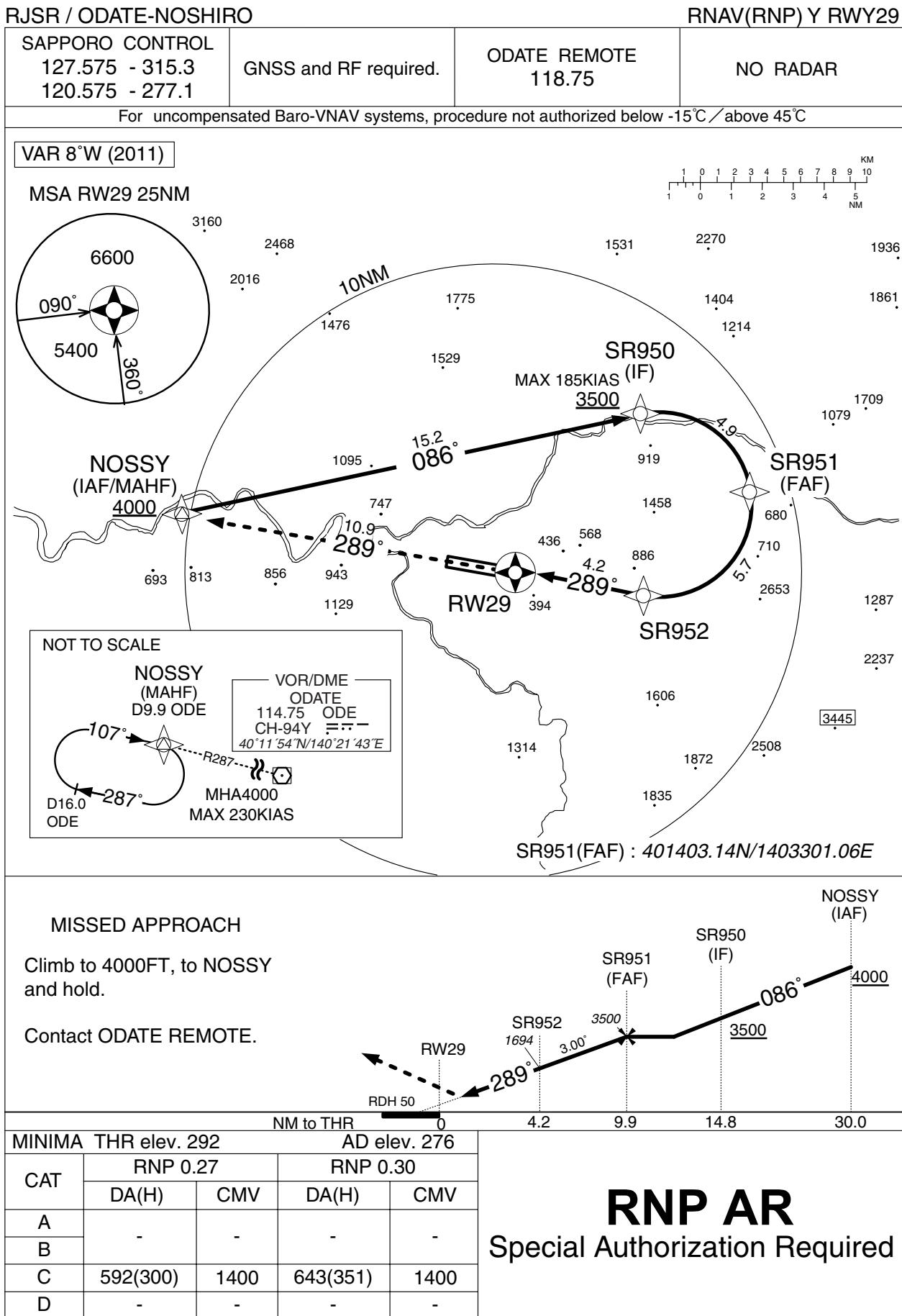
Coding Table

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		

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Y RWY29

RNAV(RNP) Y RWY29

Coding Table

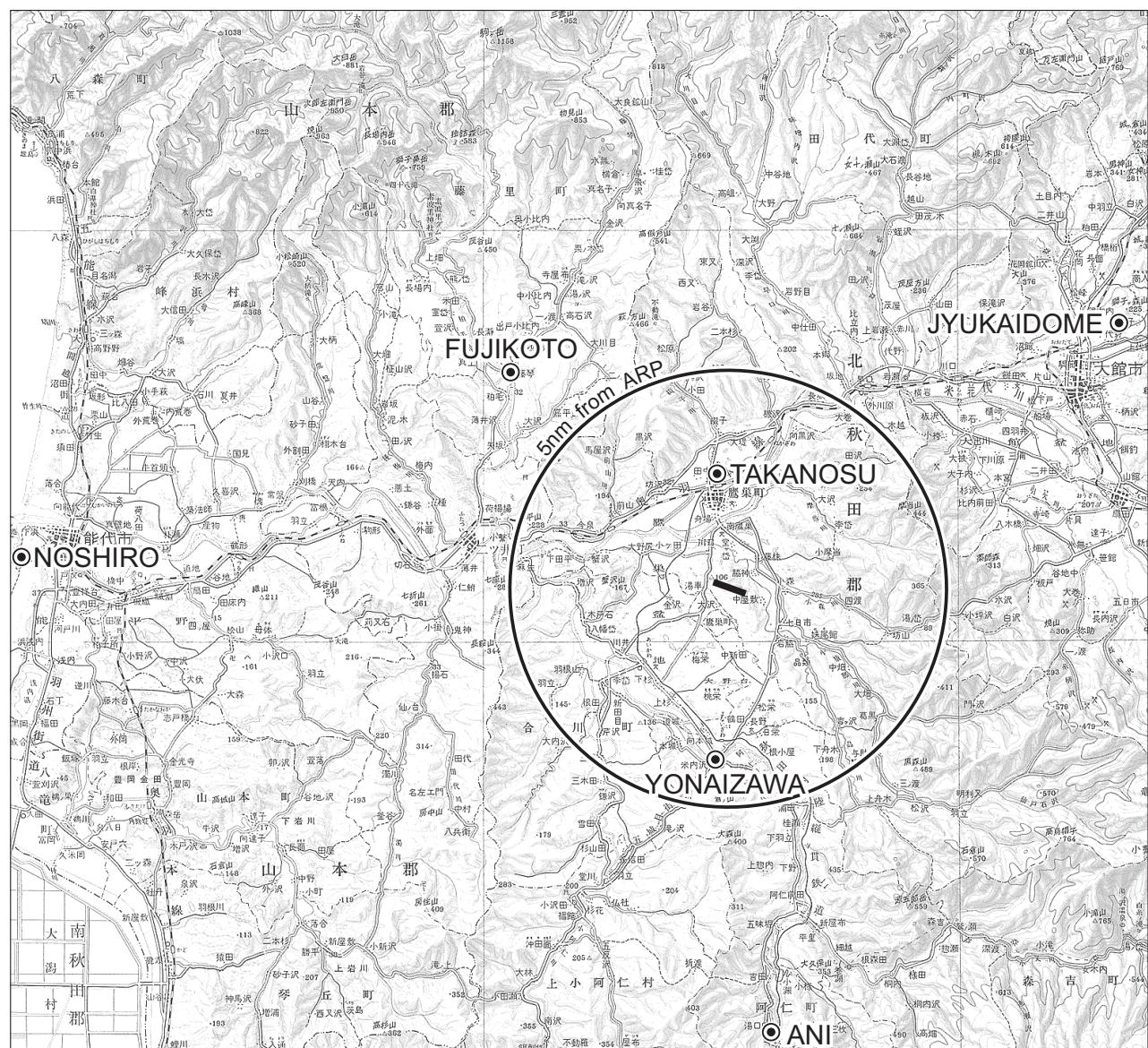
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/RDH (°/FT)	RNP Value
001	IF	NOSSY	—	—	-8.5	—	—	+4000	—	—	—
002	TF	SR950	—	086 (077.7)	-8.5	15.2	—	+3500	-185	—	1.0
003	RF Center: SRRF2 r=3.00NM	SR951	—	—	-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		

RJSR/ODATE-NOSHIRO

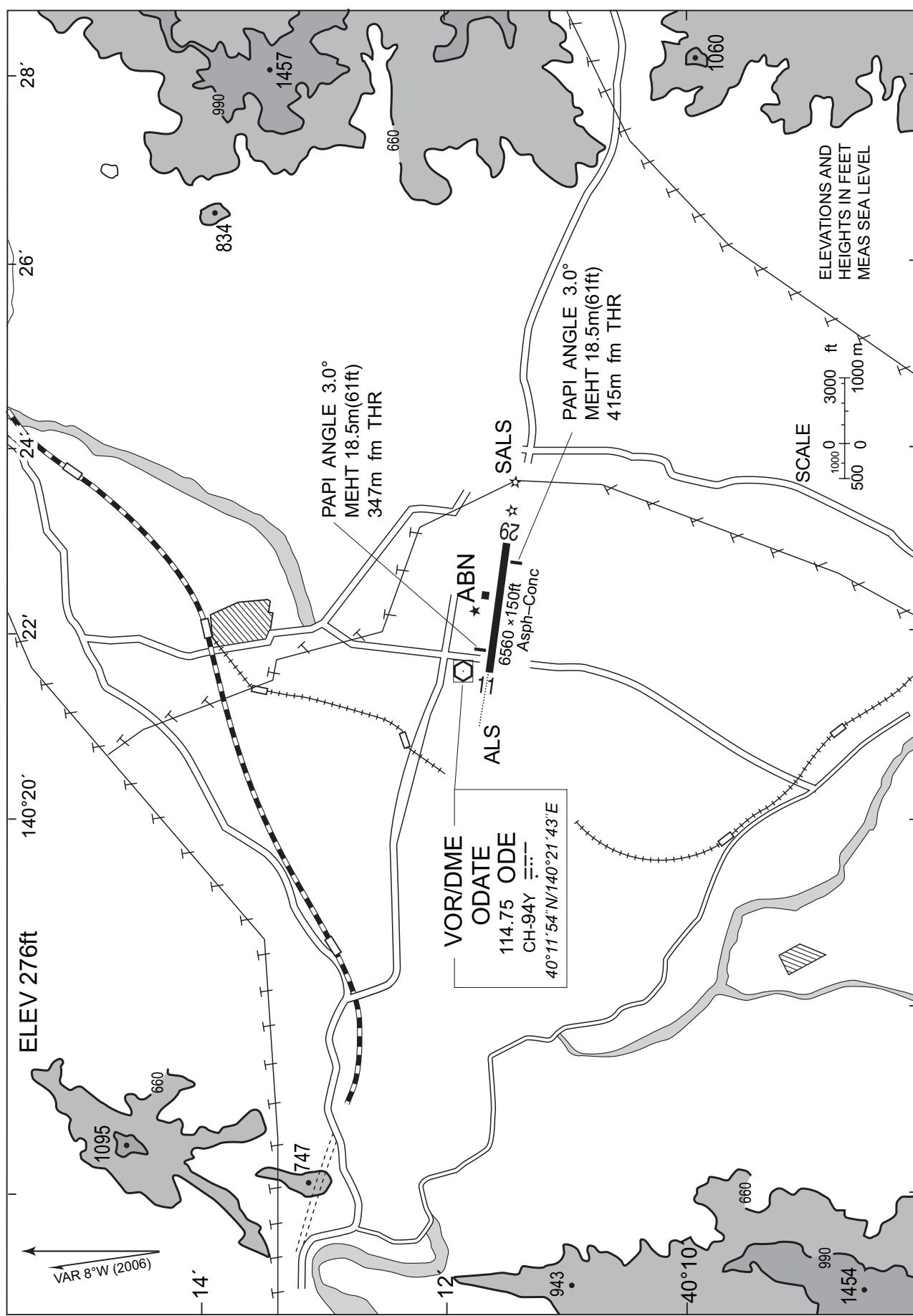
Visual REP



Call sign	BRG / DIST from ARP	Remarks
鷹巣 Takanosu	356°/ 3.0NM	JR駅北側 North of JR Station
藤琴 Fujikoto	316°/ 7.0NM	粕毛川・藤琴川交点 Intersection Kasuge and Fujikoto River
樹海ドーム JyukaiDome	058°/11.9NM	大館市白色ドーム White Dome Odate City
米内沢 Yonaizawa	181°/ 4.2NM	内陸線米内沢駅南側米内沢橋 Bridge
能代 Noshiro	272°/17.4NM	能代港 Noshiro Harbor
阿仁 Ani	173°/11.8NM	内陸線阿仁合駅 Station

RJSR / ODATE-NOSHIRO

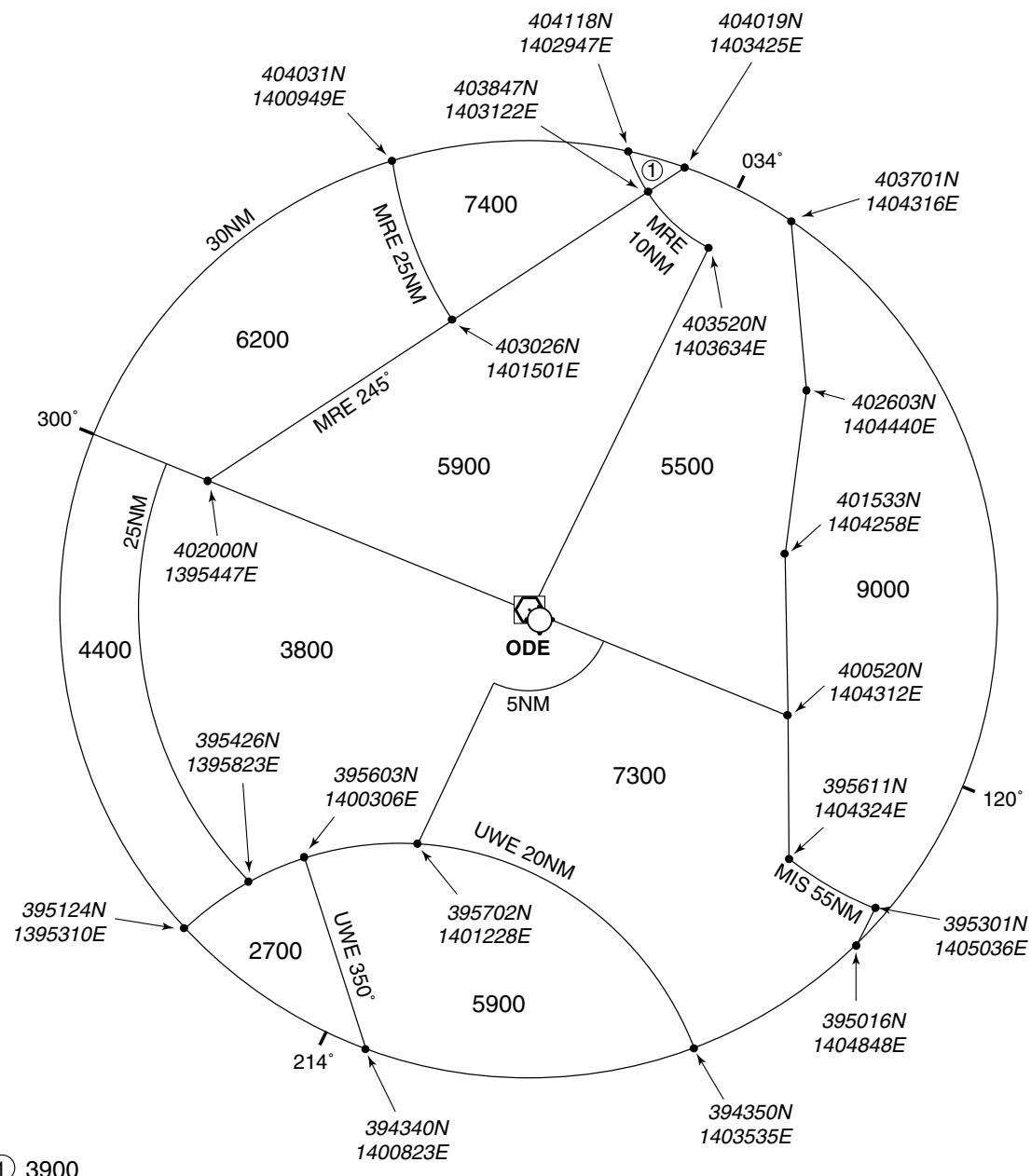
LDG CHART



RJSR / ODATE-NOSHIRO

Minimum Vectoring Altitude CHART

VAR 8°W (1998)



CENTER : 401154N/1402143E (ODE VOR/DME)