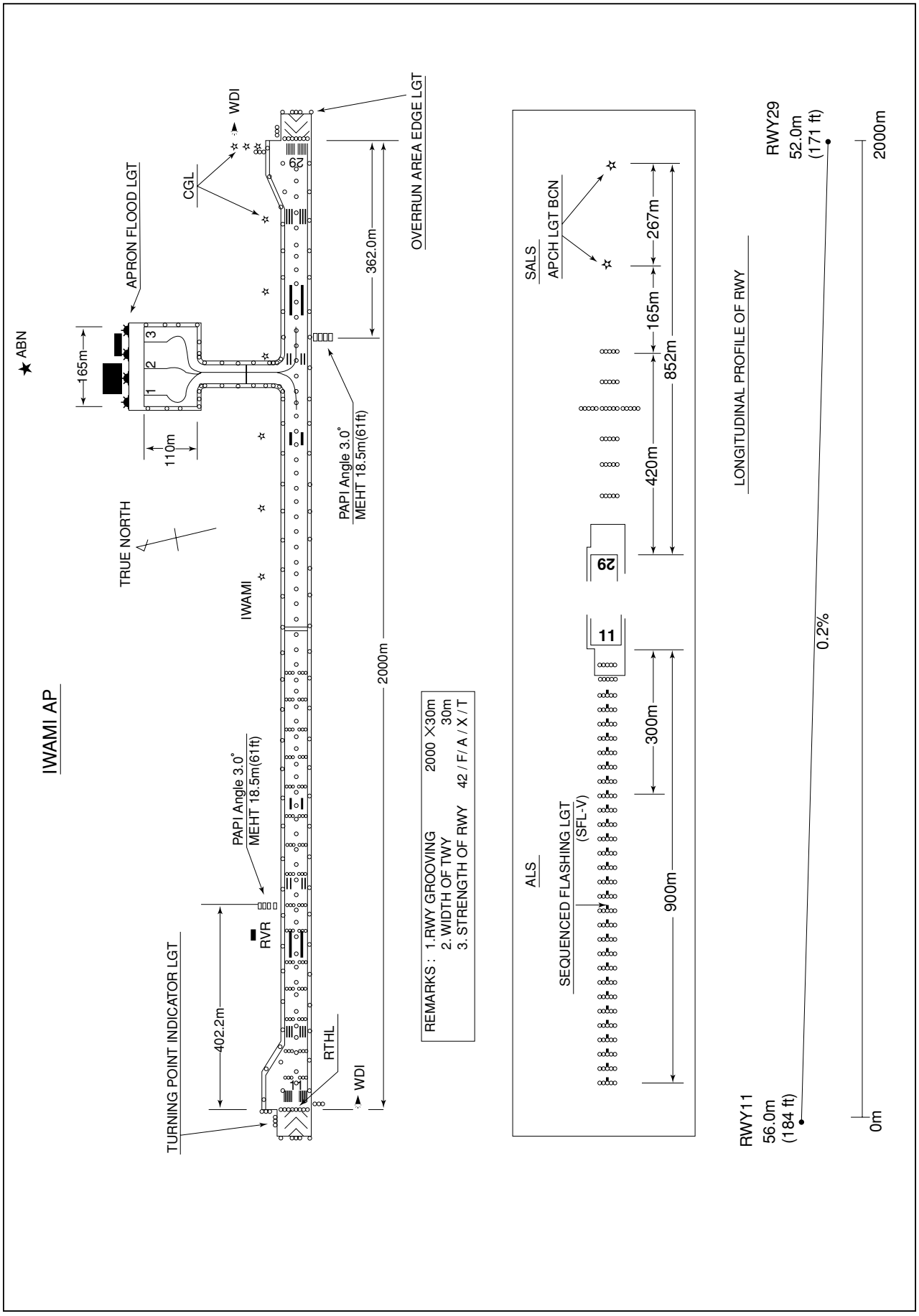
RJOW / IWAMI AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJOW / IWAMI SID and TRANSITION

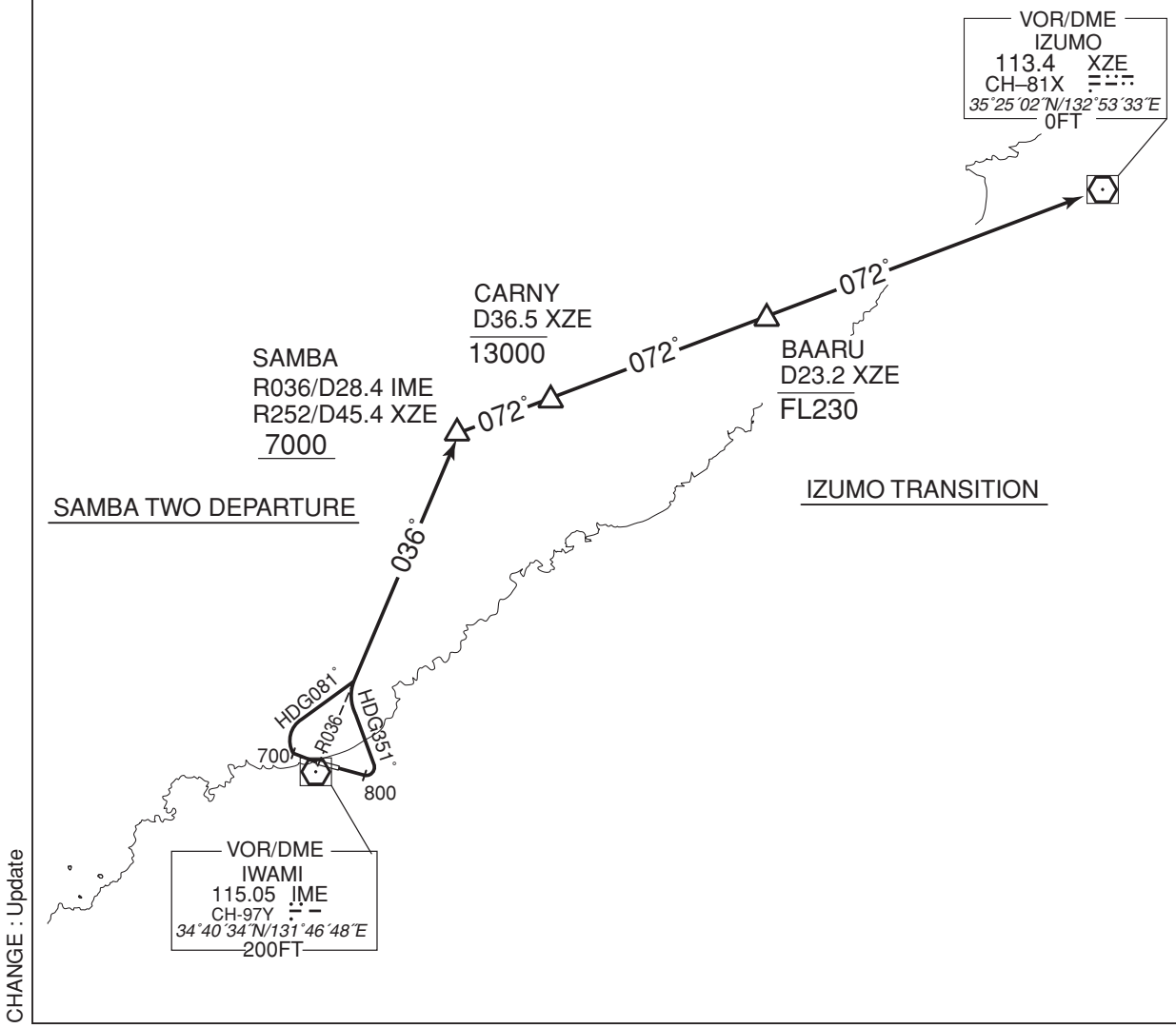
SAMBA TWO DEPARTURE

RWY11：Climb RWY HDG to 800FT, turn left HDG351˚,...
RWY29：Climb RWY HDG to 700FT, turn right HDG081˚,...
...to intercept and proceed via IME R036 to SAMBA.
Cross SAMBA at or above 7000FT.

Note RWY11： 5.7% climb gradient required up to 1700FT.
OBST ALT 1177FT located at 4.83NM 093˚ FM end of RWY11.

IZUMO TRANSITION

From over SAMBA, via XZE R252 to XZE VOR/DME.
Cross CARNY at or below 13000FT, cross BAARU at or below FL230.



CHANGE : Update

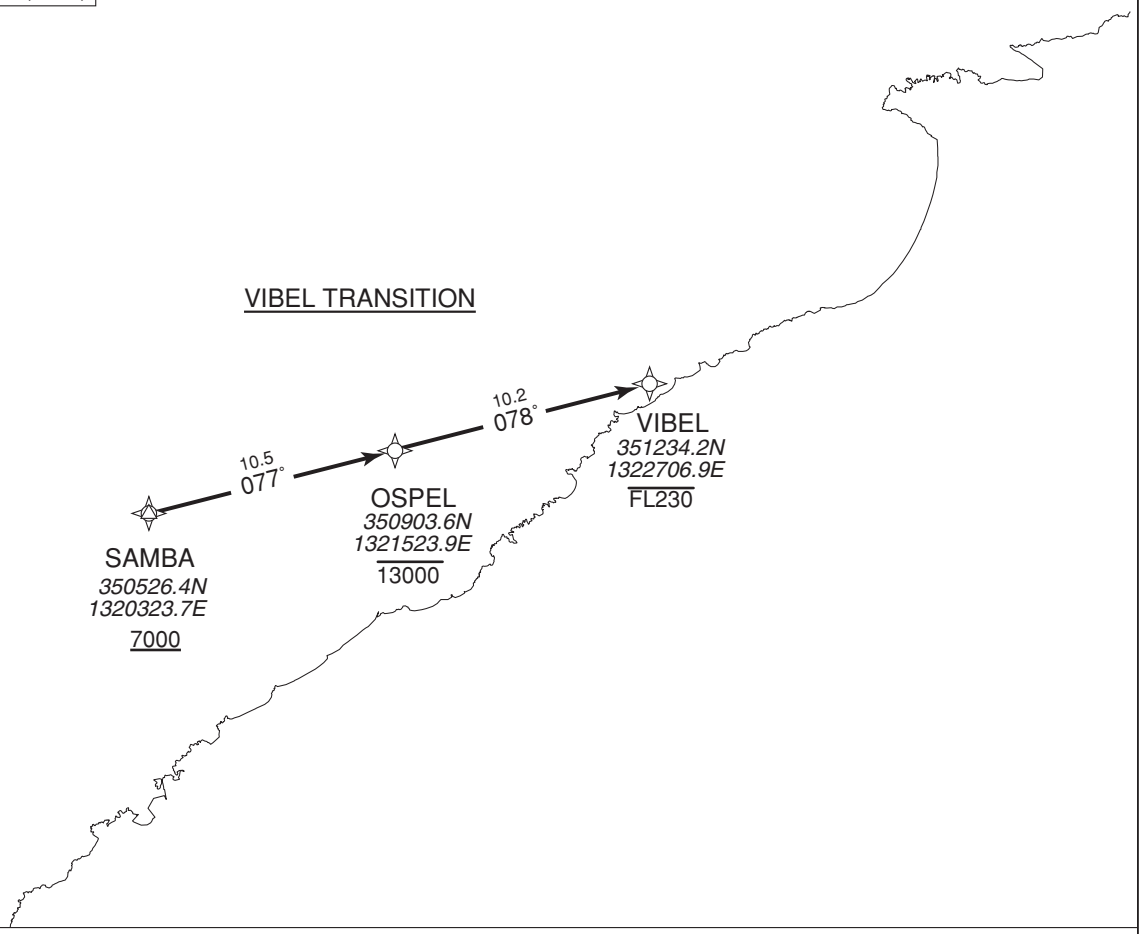
STANDARD DEPARTURE CHART-INSTRUMENT

RJOW / IWAMI ➡ RNAV TRANSITION

VIBEL TRANSITION	RNAV1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8˚W (2017)



VIBEL TRANSITION

From SAMBA at or above 7000FT, to OSPEL at or below 13000FT, to VIBEL at or below FL230.

Critical DME	STD : SAMBA – VIBEL
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

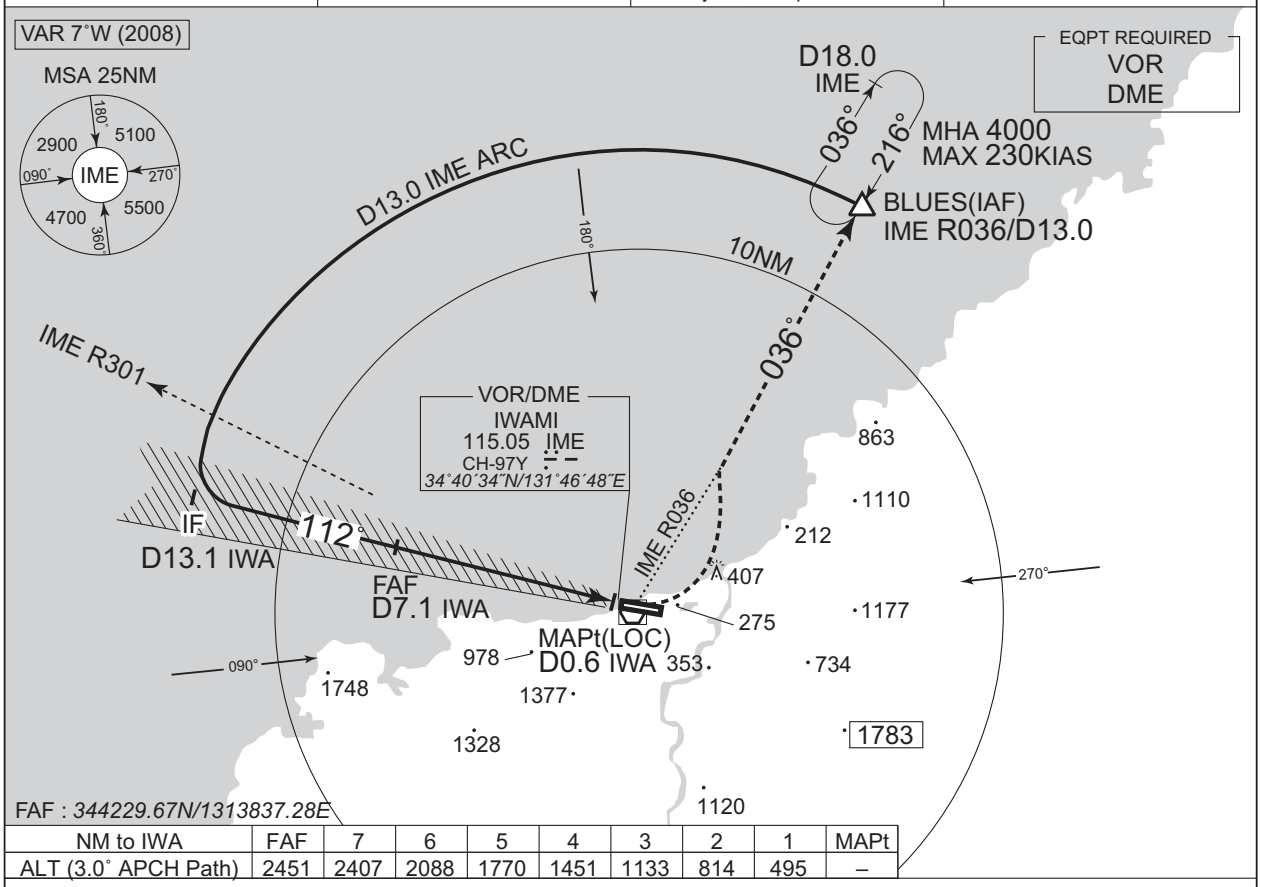
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	SAMBA	–	–	-7.8	–	–	+7000	–	–	RNAV1
002	TF	OSPEL	–	077 (069.7)	-7.8	10.5	–	-13000	–	–	RNAV1
003	TF	VIBEL	–	078 (069.8)	-7.8	10.2	–	-FL230	–	–	RNAV1

CHANGE : New PROC

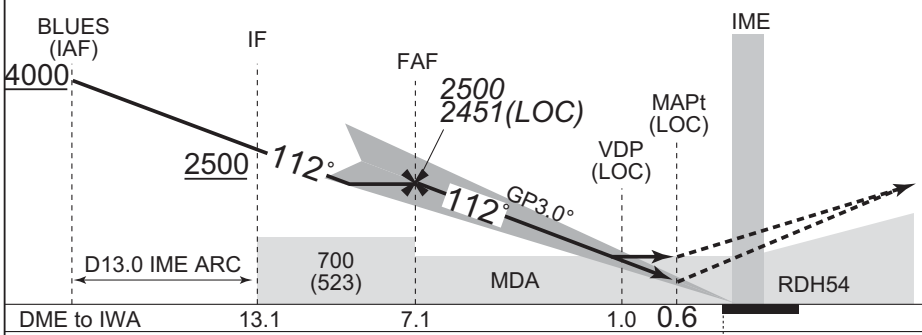
INSTRUMENT APPROACH CHART

RJOW / IWAMI — ILS or LOC RWY11

KOBE CONTROL 132.5–246.1 134.25–315.5	ILS-LOC 108.1 IWA ILS–GP 334.7 ILS–DME CH–18X	IWAMI RADIO 122.2 AFIS provided by Osaka Airport Office	NO RADAR



NM to IWA	FAF	7	6	5	4	3	2	1	MAPt
ALT (3.0˚ APCH Path)	2451	2407	2088	1770	1451	1133	814	495	–



MISSED APPROACH

Turn left, climb to 4000FT via IME R036 to BLUES and hold.
Contact IWAMI RADIO.

Timing not authorized for definig the MAPt.

DME to IWA	13.1	7.1	1.0	0.6
NM to THR	13.0	7.0	0.8	0.5	0

Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 184 AD elev. 177

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	384 (200)	550	480 (303)	900	1000 (823)	1600
B				1000	1100 (923)	
C					1400 (1223)	2400
D				1400	1600 (1423)	3200

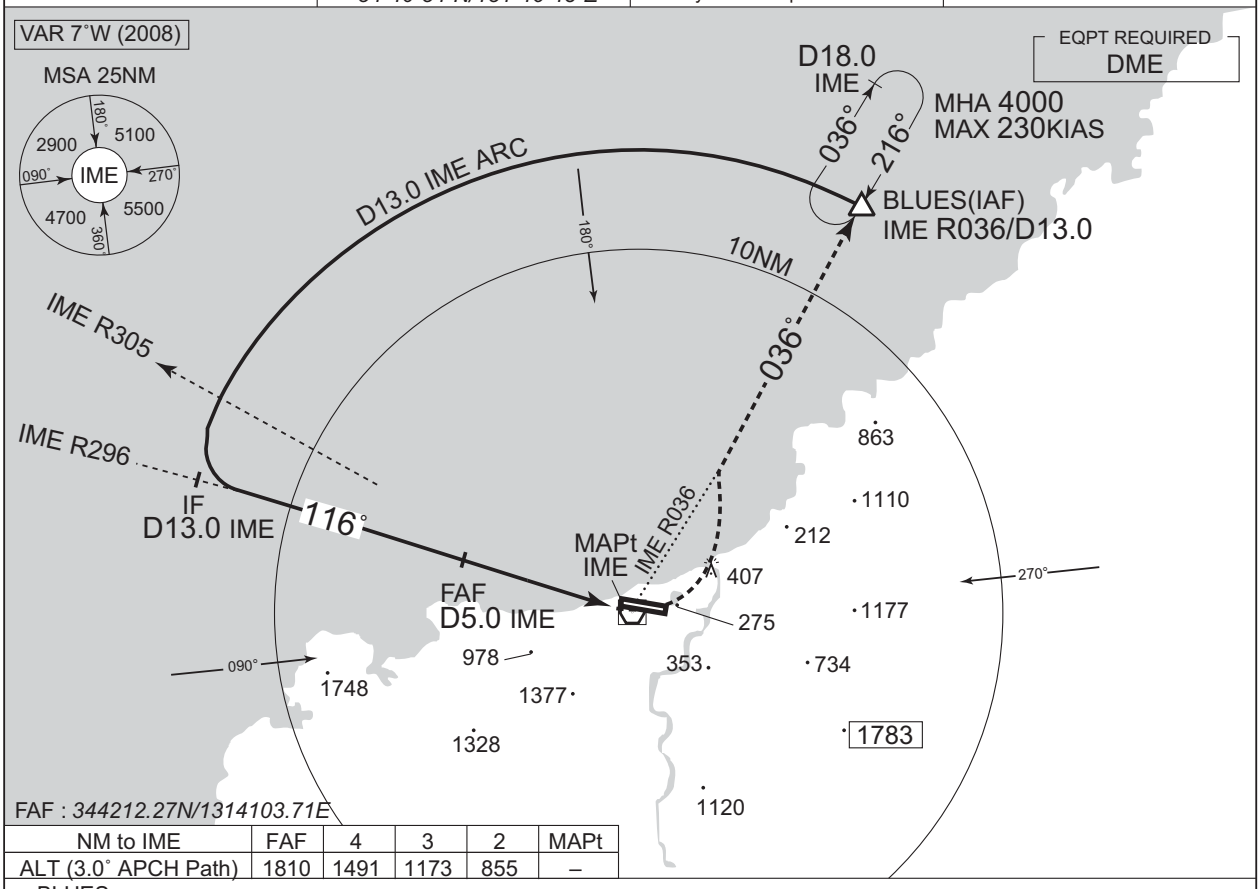
Circling to NORTH side of RWY only.
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE: Call sign(REMOTE→RADIO). AFIS unit added.

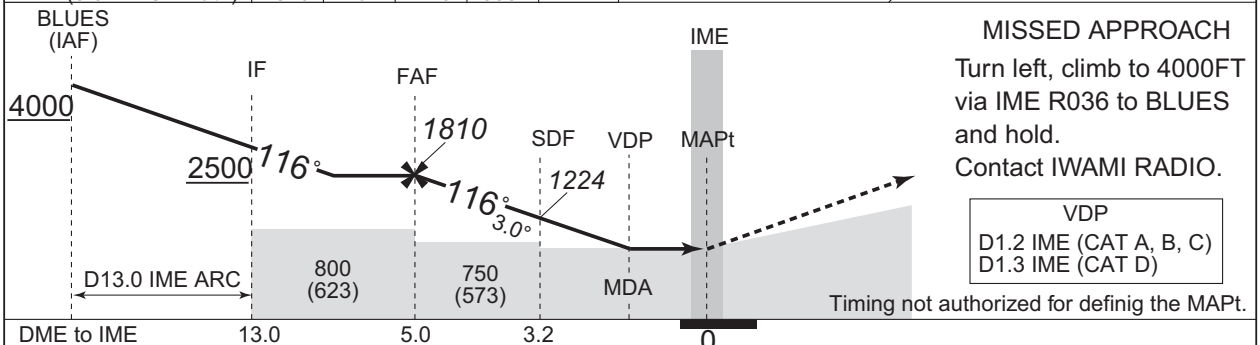
INSTRUMENT APPROACH CHART

RJOW / IWAMI — VOR RWY11

KOBE CONTROL	IWAMI VOR/DME	IWAMI RADIO	NO RADAR
132.5–246.1 134.25–315.5	115.05 IME CH–97Y *34˚40´34˝N/131˚46´48˝E*	122.2 AFIS provided by Osaka Airport Office	



NM to IME	FAF	4	3	2	MAPt
ALT (3.0˚ APCH Path)	1810	1491	1173	855	–



MISSED APPROACH
Turn left, climb to 4000FT via IME R036 to BLUES and hold.
Contact IWAMI RADIO.

VDP
D1.2 IME (CAT A, B, C)
D1.3 IME (CAT D)

Timing not authorized for definig the MAPt.

DME to IME	13.0	5.0	3.2	
NM to THR	12.9	4.9	3.1	0

MINIMA THR elev. 184 AD elev. 177

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	590 (413)	900	1000 (823)	1600
B		1000	1100 (923)	
C			1400 (1223)	2400
D	610 (433)	1400	1600 (1423)	3200

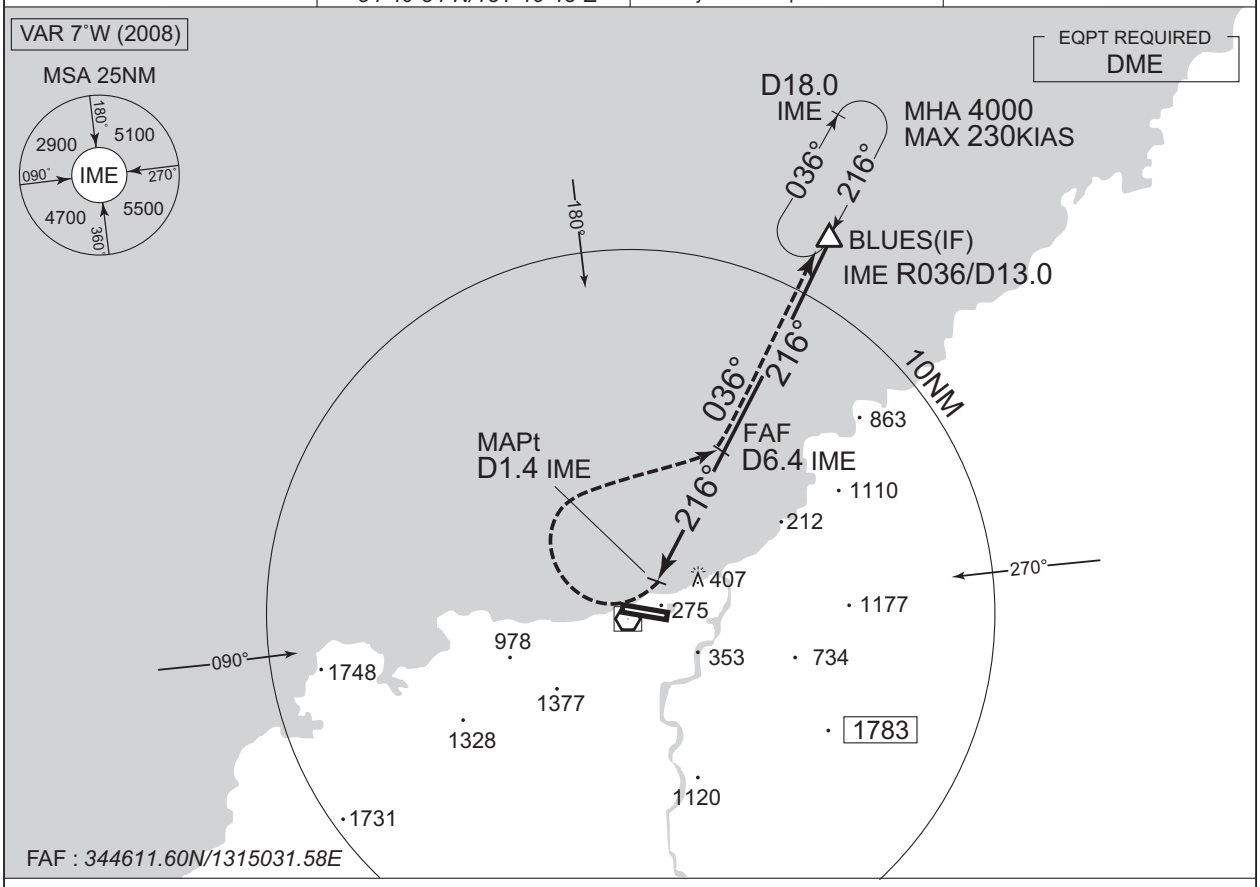
Circling to NORTH side of RWY only

CHANGE: Call sign(REMOTE→RADIO). AFIS unit added.

INSTRUMENT APPROACH CHART

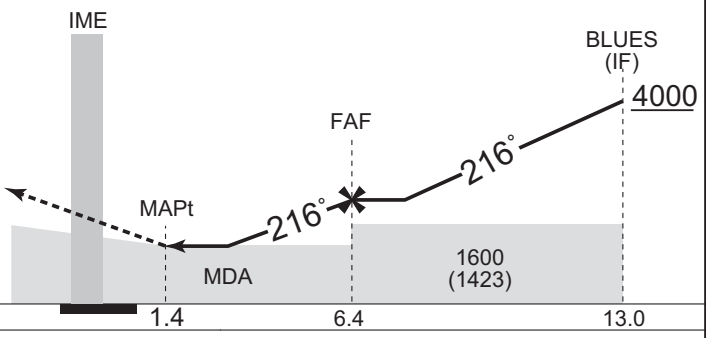
RJOW / IWAMI VOR A

KOBE CONTROL	IWAMI VOR/DME	IWAMI RADIO	NO RADAR
132.5 - 246.1 134.25 - 315.5	115.05 IME CH-97Y *34˚40´34˝N/131˚46´48˝E*	122.2 AFIS provided by Osaka Airport Office	



MISSED APPROACH

Turn right, climb to 4000FT via IME
R036 to BLUES and hold.
Contact IWAMI RADIO.



Timing not authorized for definig the MAPt.

MINIMA		AD elev. 177
CAT	CIRCLING	
	MDA(H)	VIS
A	1000 (823)	1600
B	1100 (923)	
C	1400 (1223)	2400
D	1600 (1423)	3200

Circling to NORTH side of RWY only

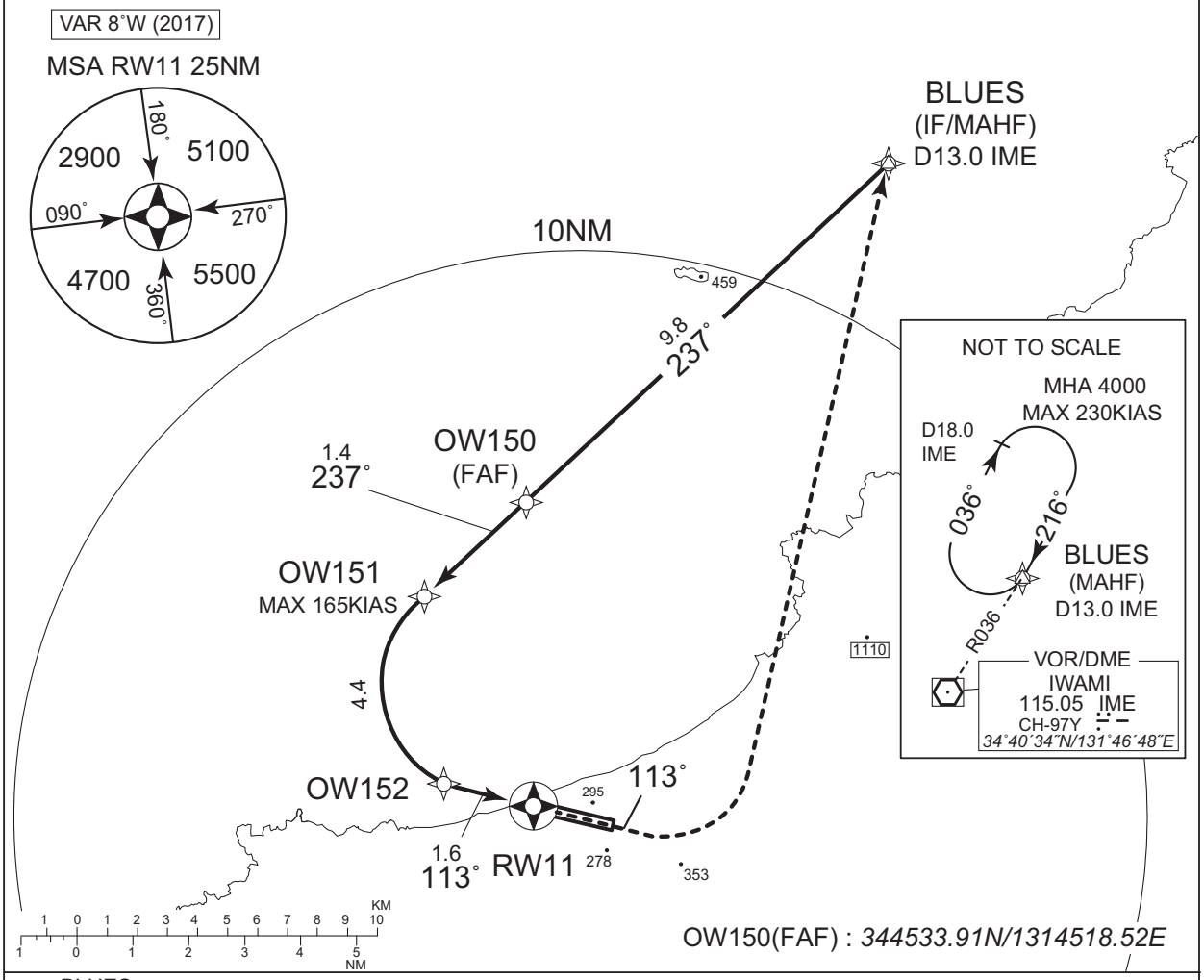
CHANGE: Call sign(REMOTE→RADIO). AFIS unit added.

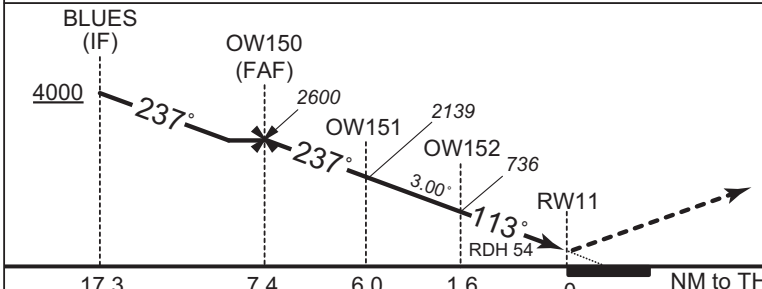
INSTRUMENT APPROACH CHART

RJOW / IWAMI — RNAV(RNP) RWY11

KOBE CONTROL 132.5 - 246.1 134.25 - 315.5	GNSS and RF required.	IWAMI RADIO 122.2 AFIS provided by Osaka Airport Office	NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -5 ℃ / above 45℃





MISSED APPROACH

From RW11 on track 113˚, at or above 600FT turn left, direct to BLUES and hold at 4000FT.

Contact IWAMI RADIO.

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 184 AD elev. 177		
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B		
C	484(300)	1000
D	-	-

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

RNP AR

Special Authorization Required

CHANGE: Call sign(REMOTE→RADIO). AFIS unit added.

INSTRUMENT APPROACH CHART

RJOW / IWAMI ➡ RNAV(RNP) RWY11

RNAV(RNP) RWY11

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	BLUES	–	–	-7.8	–	–	+4000	–	–	1.0
002	TF	OW150	–	237 (229.3)	-7.8	9.8	–	2600	–	–	1.0
003	TF	OW151	–	237 (229.2)	-7.8	1.4	–	2139	-165	-3.00	0.3
004	RF Center: OWRF1 r=2.03NM	OW152	–	–	-7.8	4.4	L	736	–	-3.00	0.3
005	TF	RW11	Y	113 (104.8)	-7.8	1.6	–	238	–	-3.00/54	0.3
006	FA	–	–	113 (104.8)	-7.8	–	–	+600	–	–	1.0
007	DF	BLUES	–	–	-7.8	–	L	4000	–	–	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BLUES	*345159.02N/1315423.09E*	OWRF1	*344304.90N/1314534.53E*
OW150	*344533.91N/1314518.52E*		
OW151	*344437.18N/1314358.51E*		
OW152	*344107.26N/1314456.99E*		
RW11	*344043.28N/1314647.11E*		

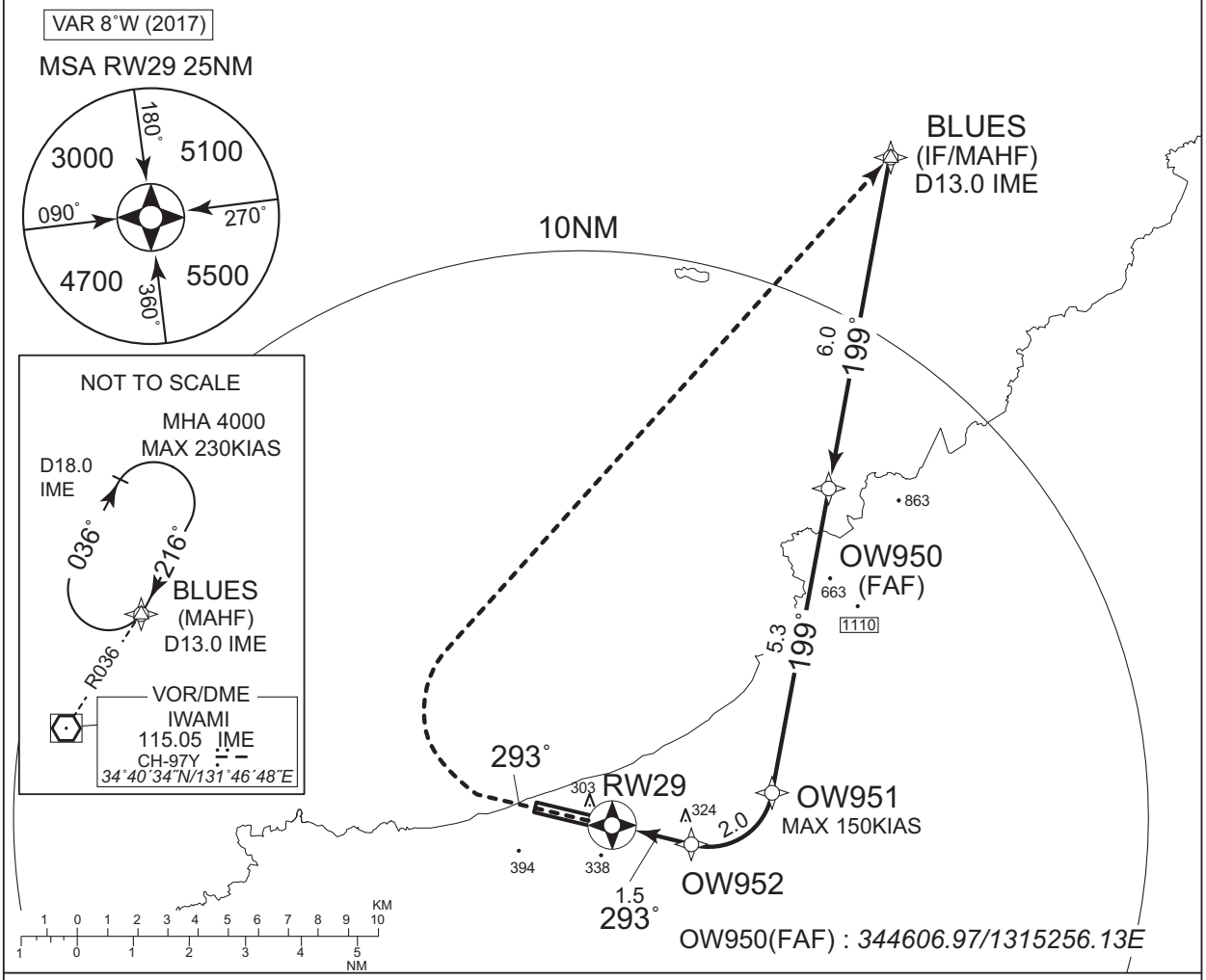
CHANGE : New PROC

INSTRUMENT APPROACH CHART

RJOW / IWAMI — RNAV(RNP) RWY29

KOBE CONTROL 132.5 - 246.1 134.25 - 315.5	GNSS and RF required.	IWAMI RADIO 122.2 AFIS provided by Osaka Airport Office	NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -5 ℃ / above 39℃

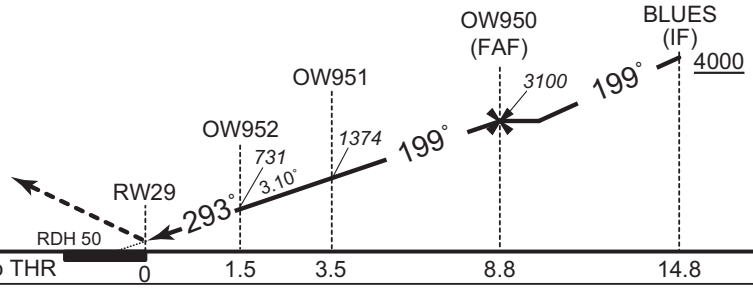


MISSED APPROACH

From RW29 on track 293˚, at or above 600FT turn right, direct to BLUES and hold at 4000FT.

Contact IWAMI RADIO.

PAPI not coincident with VPA.



Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 171 AD elev. 177

CAT	RNP 0.16		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	–	–	–	–
B				
C	471(300)	1400	489(318)	1400
D	–	–	–	–

RNP AR
Special Authorization Required

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

CHANGE: Call sign(REMOTE→RADIO). AFIS unit added.

INSTRUMENT APPROACH CHART

RJOW / IWAMI ➡ RNAV(RNP) RWY29

RNAV(RNP) 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	BLUES	–	–	-7.8	–	–	+4000	–	–	1.0
002	TF	OW950	–	199 (191.5)	-7.8	6.0	–	3100	–	–	1.0
003	TF	OW951	–	199 (191.5)	-7.8	5.3	–	1374	-150	-3.10	0.16 0.3
004	RF Center: OWRF2 r=1.20NM	OW952	–	–	-7.8	2.0	R	731	–	-3.10	0.16 0.3
005	TF	RW29	Y	293 (284.9)	-7.8	1.5	–	221	–	-3.10/50	0.16 0.3
006	FA	–	–	293 (284.9)	-7.8	–	–	+600	–	–	1.0
007	DF	BLUES	–	–	-7.8	–	R	4000	–	–	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BLUES	*345159.02N/1315423.09E*	OWRF2	*344112.62N/1315014.52E*
OW950	*344606.97N/1315256.13E*		
OW951	*344058.27N/1315140.08E*		
OW952	*344002.90N/1314952.21E*		
RW29	*344026.72N/1314803.07E*		

CHANGE : New PROC

RJOW / IWAMI

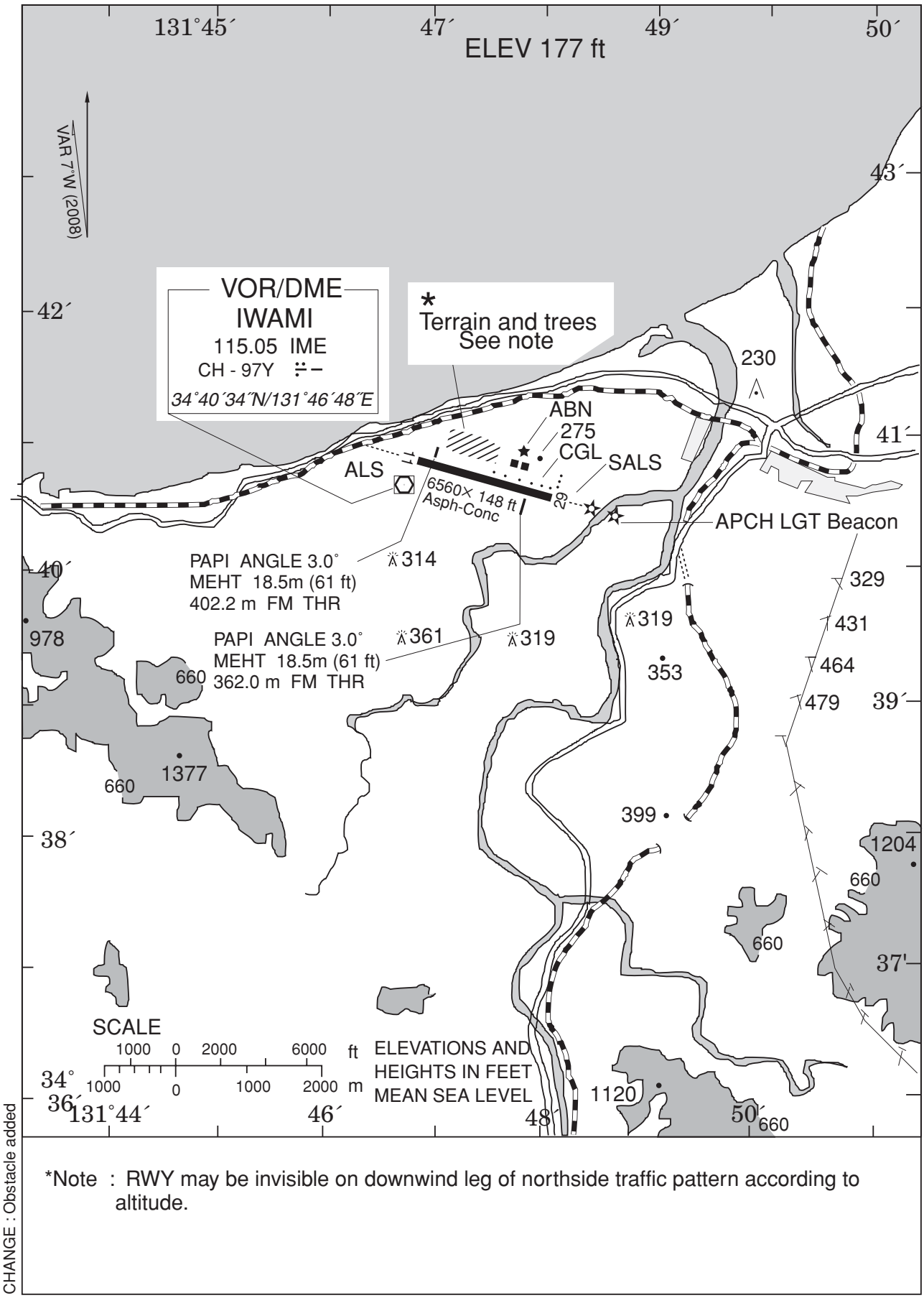
Visual REP

※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
魚待 Uomachi	038°T / 6.0NM	岬 Cape
高山 Takayama	266°T / 8.8NM	岬 Cape
日原 Nichihara	166°T / 8.9NM	駅 Station

RJOW / IWAMI LDG CHART



*Note : RWY may be invisible on downwind leg of northside traffic pattern according to altitude.

CHANGE : Obstacle added

RJOW / IWAMI Minimum Vectoring Altitude CHART