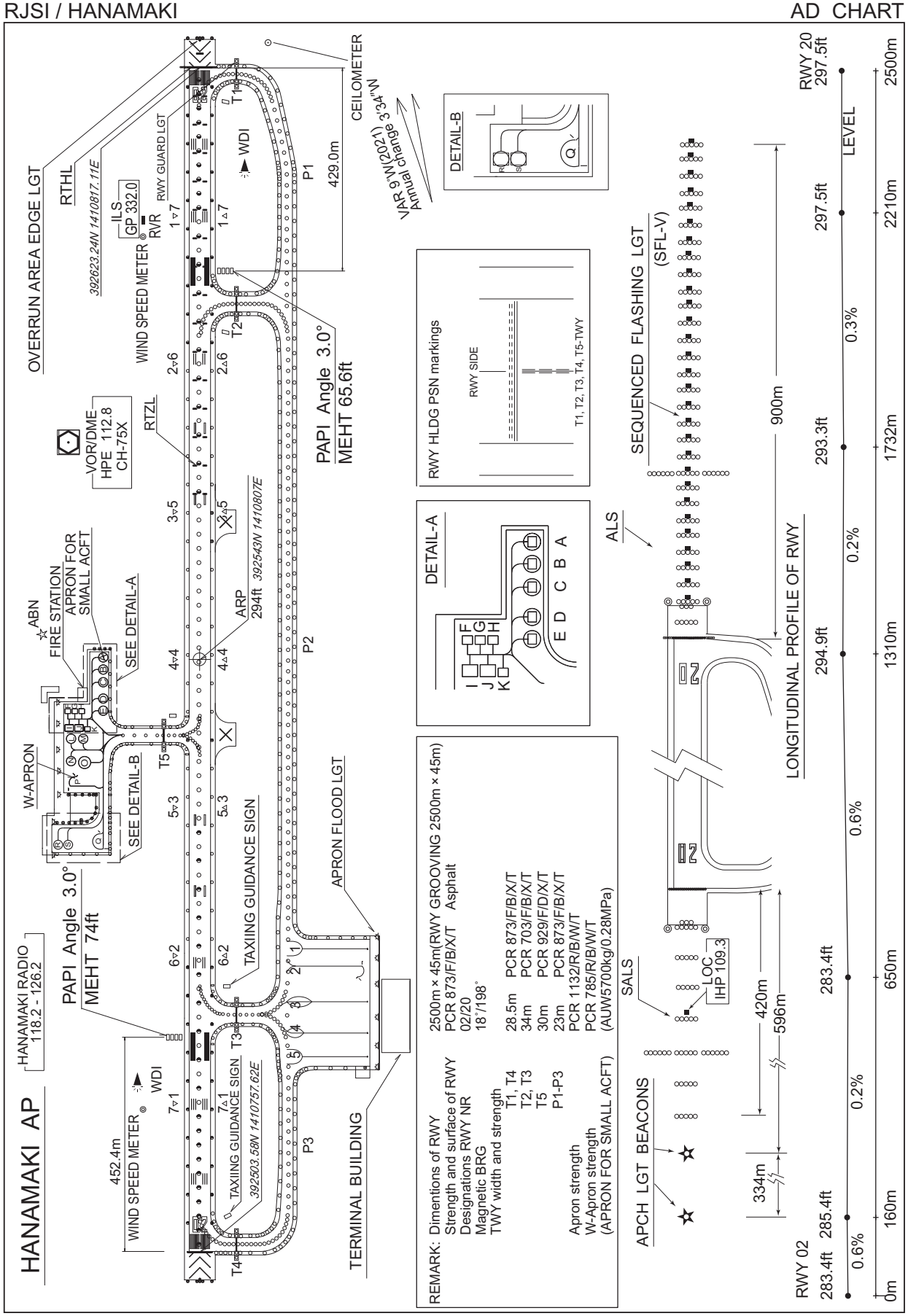
RJSI / HANAMAKI AD CHART

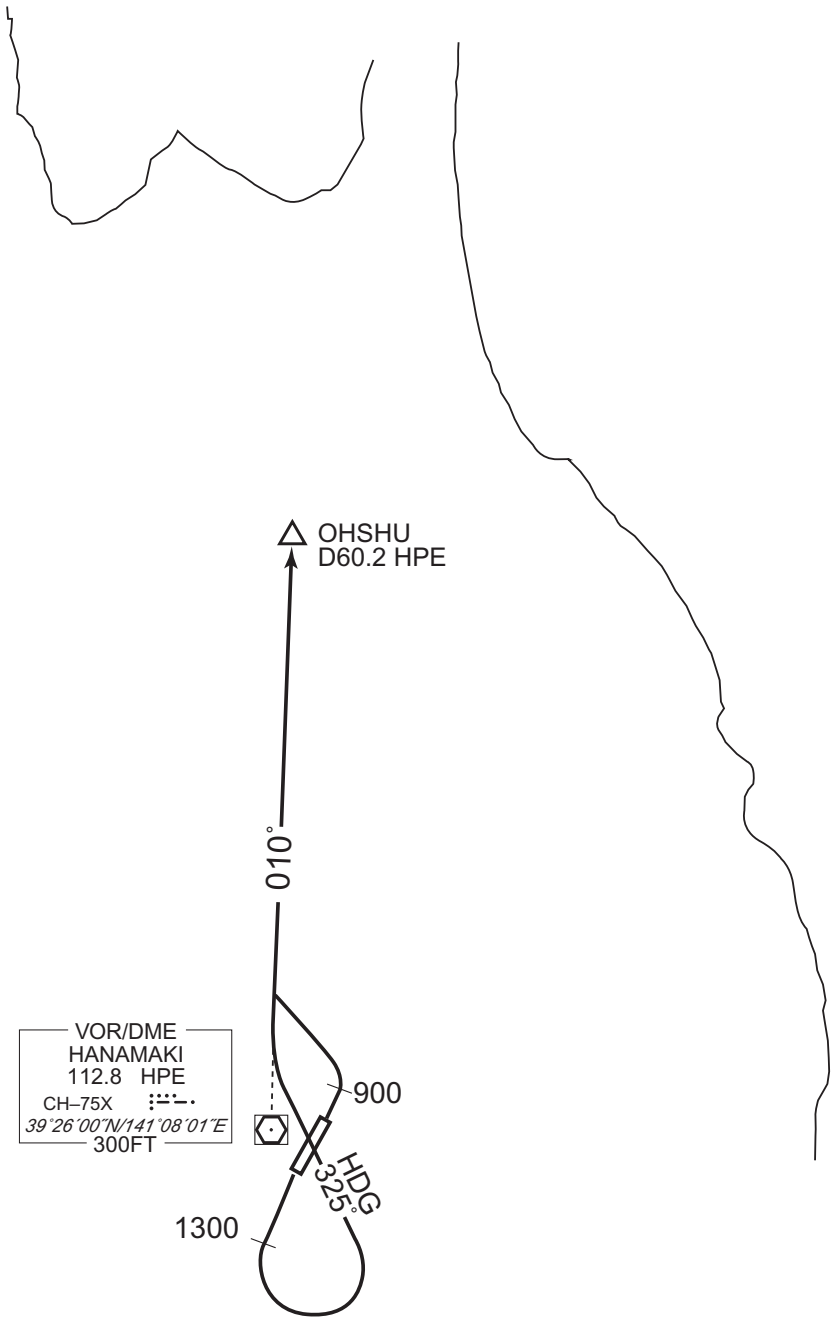


STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI SID

OHSHU TWO DEPARTURE

RWY 02 : Climb RWY HDG to 900FT, turn left...
RWY 20 : Climb RWY HDG to 1300FT, turn left HDG 325˚...
...to intercept and proceed via HPE R010 to OHSHU.



CHANGE : PROC course. PROC renamed.

STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI SID

NIIGATA SIX DEPARTURE

RWY 02 : Climb RWY HDG to HPE 3.5 DME, turn right...

RWY 20 : Climb RWY HDG to HPE 3.5 DME, turn left...

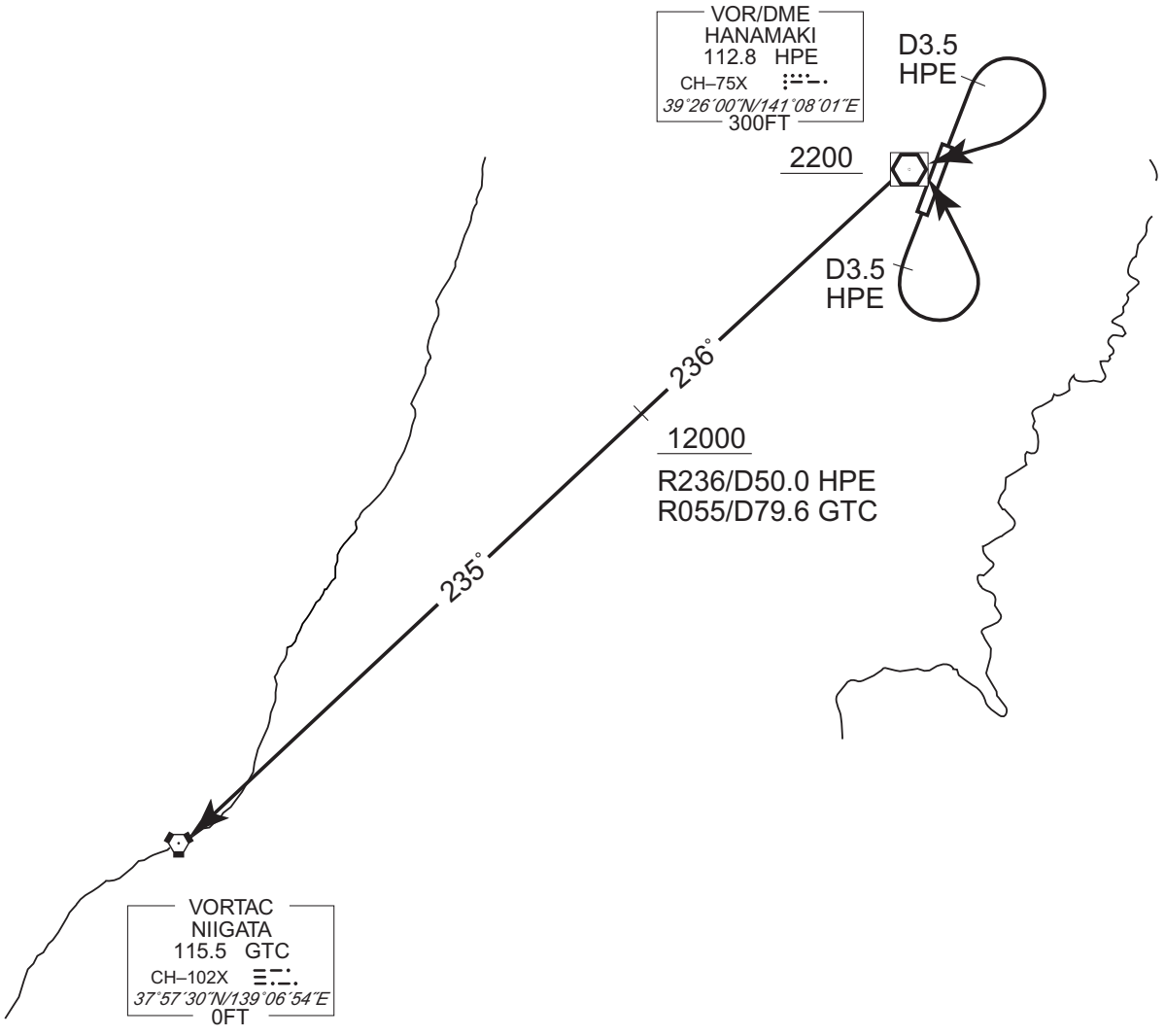
...proceed to HPE VOR/DME, via HPE R236 to HPE 50.0DME(GTC 79.6DME), via GTC R055 to GTC.

Cross HPE VOR/DME at or above 2200 FT, cross HPE R236/50.0DME (GTC R055/79.6DME) at or above 12000 FT.

Note RWY02 : 4.5% climb gradient required up to 2400FT.
OBST ALT 1641FT located at 4.1NM 091˚ FM end of RWY02.

RWY20 : 3.9% climb gradient required up to 1100FT.
OBST ALT 722FT located at 2.8NM 166˚ FM end of RWY20.

CHANGE : SID renamed. ALT restriction at R236/D50.0 HPE, R055/D79.6 GTC.



STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI SID

HANAMAKI REVERSAL THREE DEPARTURE

RWY 02 : Climb RWY HDG to 700FT, via HPE R022 to 6.0 DME, turn right...

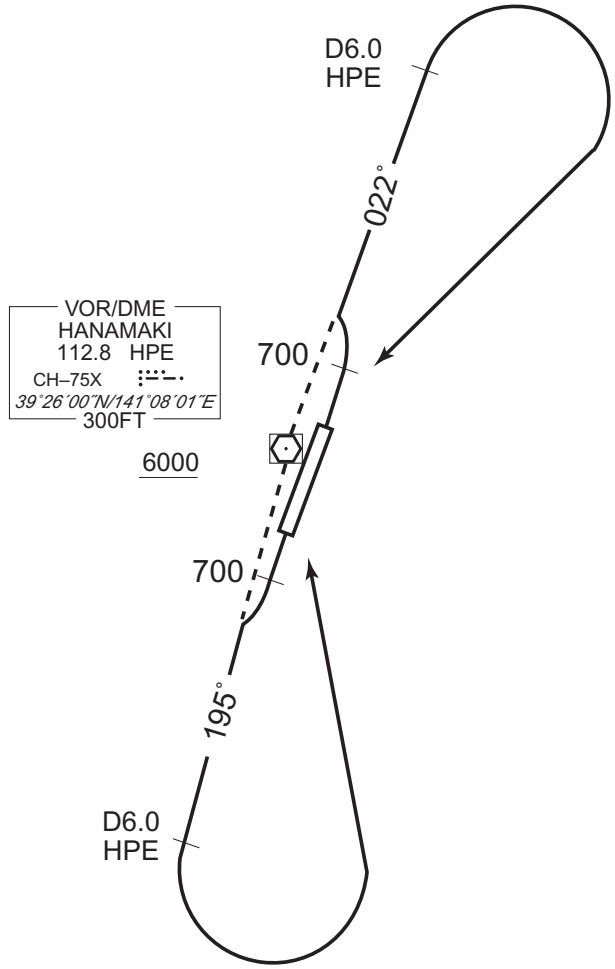
RWY 20 : Climb RWY HDG to 700FT, via HPE R195 to 6.0 DME, turn left...

...direct to HPE VOR/DME.

Cross HPE VOR/DME at or above 6000FT.

Note RWY02 : 5.0% climb gradient required up to 3200FT.

OBST ALT 2691FT located at 9.1NM 058° FM end of RWY02.



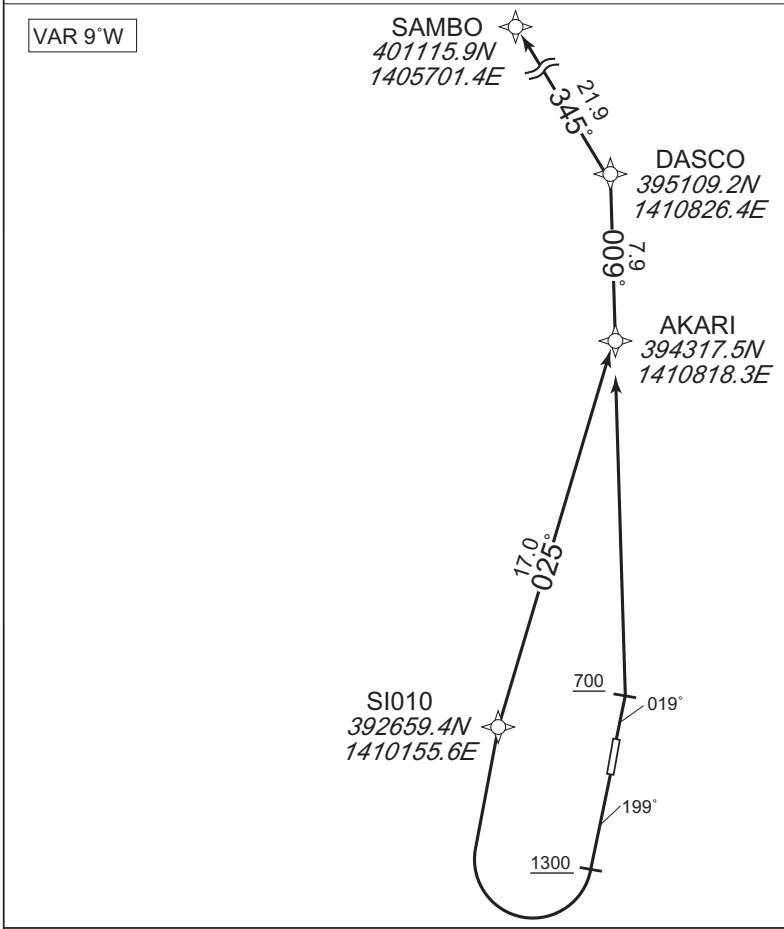
CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI — RNAV SID

SAMBO ONE DEPARTURE — RNP1

Note GNSS required.



RWY02 : Climb on HDG 019˚ at or above 700FT, direct to AKARI, to DASCO to SAMBO.
RWY20 : Climb on HDG 199˚ at or above 1300FT, turn right direct to SI010, to AKARI, to DASCO to SAMBO .

Note RWY02 : 4.0% climb gradient required up to 700FT.
OBST ALT 318FT located at 0.2NM 061˚ FM end of RWY02.
RWY20 : 4.0% climb gradient required up to 2700FT.
OBST ALT 3117FT located at 10.7NM 351˚ FM end of RWY20.

RWY02

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	–	–	019 (010.7)	-8.7	–	–	+700	–	–	RNP1
002	DF	AKARI	–	–	-8.7	–	–	–	–	–	RNP1
003	TF	DASCO	–	009 (000.8)	-8.7	7.9	–	–	–	–	RNP1
004	TF	SAMBO	–	345 (336.6)	-8.7	21.9	–	–	–	–	RNP1

RWY20

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	–	–	199 (190.7)	-8.7	–	–	+1300	–	–	RNP1
002	DF	SI010	–	–	-8.7	–	R	–	–	–	RNP1
003	TF	AKARI	–	025 (016.7)	-8.7	17.0	–	–	–	–	RNP1
004	TF	DASCO	–	009 (000.8)	-8.7	7.9	–	–	–	–	RNP1
005	TF	SAMBO	–	345 (336.6)	-8.7	21.9	–	–	–	–	RNP1

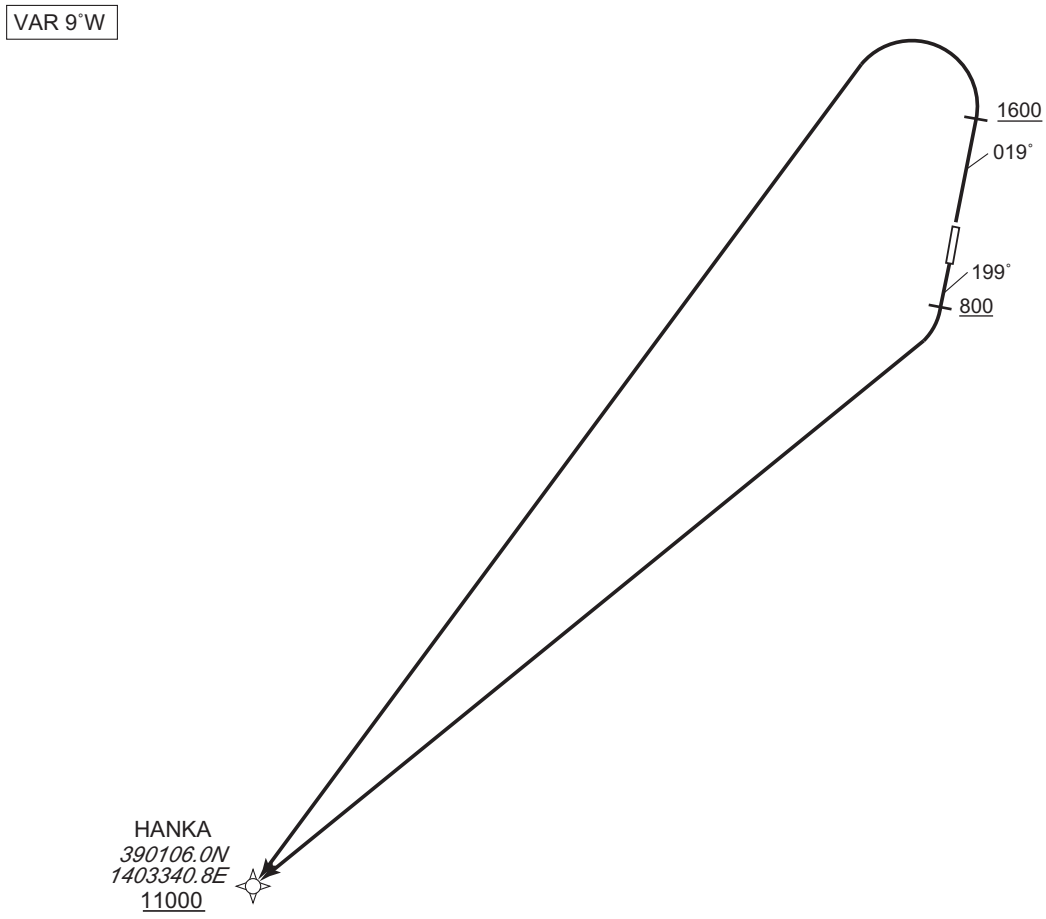
CHANGE : Description of VOR/DME.

STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI — RNAV SID

HANKA ONE DEPARTURE	RNP1

Note GNSS required



RWY02 : Climb on HDG 019˚ at or above 1600FT, turn left direct to HANKA, at or above 11000FT.
RWY20 : Climb on HDG 199˚ at or above 800FT, turn right direct to HANKA, at or above 11000FT.
Note RWY02: 5.0% climb gradient required up to 3600FT.
OBST ALT 1936FT located at 5.5NM 340˚ FM end of RWY02.
OBST ALT 3018FT located at 8.2NM 310˚ FM end of RWY02.
RWY20: 5.0% climb gradient required up to 5400FT.
OBST ALT 4593FT located at 18.2NM 227˚ FM end of RWY20.
OBST ALT 5151FT located at 20.8NM 232˚ FM end of RWY20.

CHANGE : Description of VOR/DME.

RWY02

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	–	–	019 (010.7)	-8.7	–	–	+1600	–	–	RNP1
002	DF	HANKA	–	–	-8.7	–	L	+11000	–	–	RNP1

RWY20

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	–	–	199 (190.7)	-8.7	–	–	+800	–	–	RNP1
002	DF	HANKA	–	–	-8.7	–	R	+11000	–	–	RNP1

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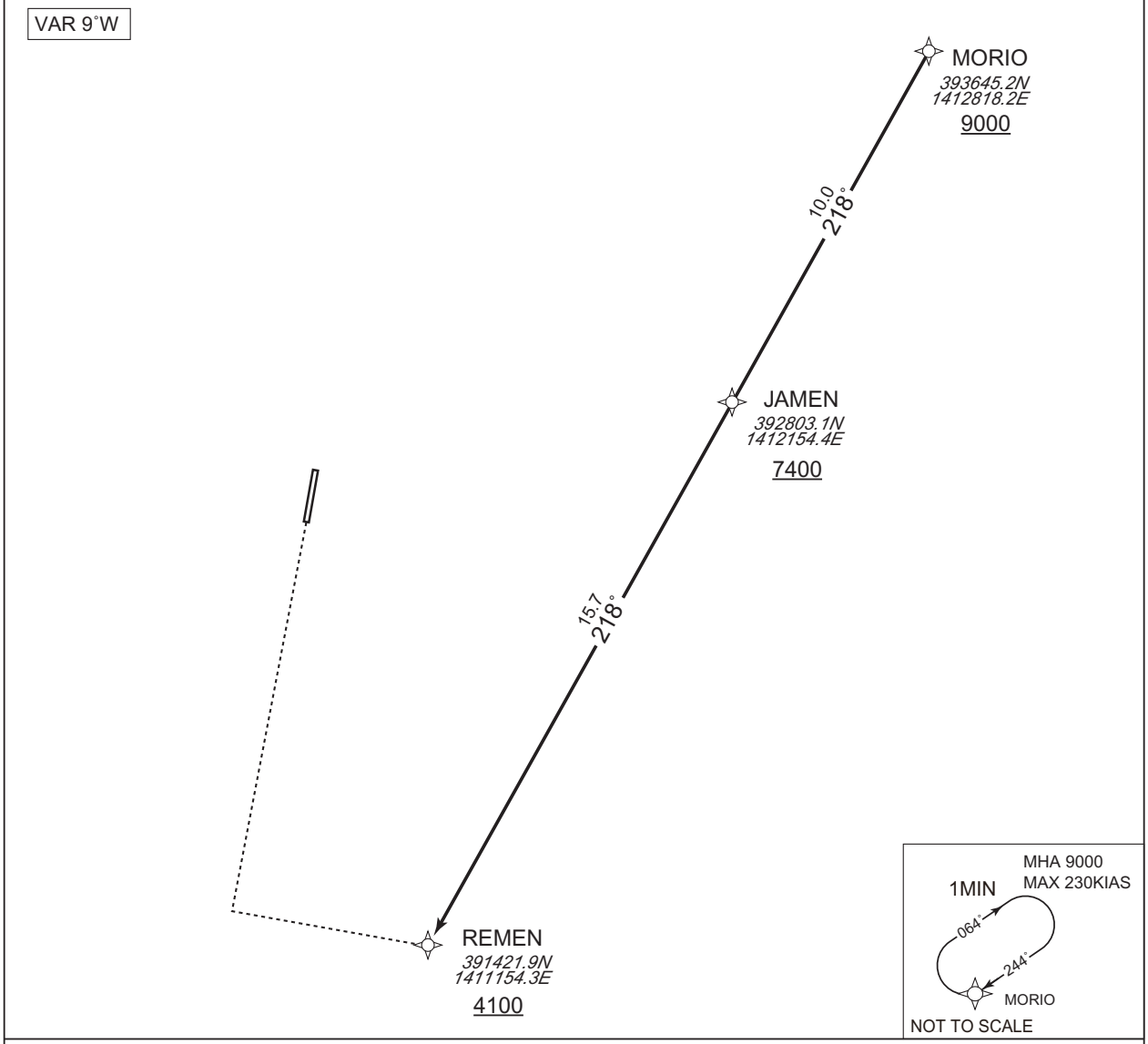
STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI — RNAV STAR RWY02

REMEN ARRIVAL — RNP1

Note GNSS required



From MORIO at or above 9000FT, to JAMEN at or above 7400FT, to REMEN at or above 4100FT.

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	MORIO	–	–	-8.8	–	–	+9000	–	–	RNP1
002	TF	JAMEN	–	218 (209.6)	-8.8	10.0	–	+7400	–	–	RNP1
003	TF	REMEN	–	218 (209.5)	-8.8	15.7	–	+4100	–	–	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	MORIO	244 (235.7)	-8.8	1.0(-14000)	R	9000	FL140	-230(-14000)	RNP1

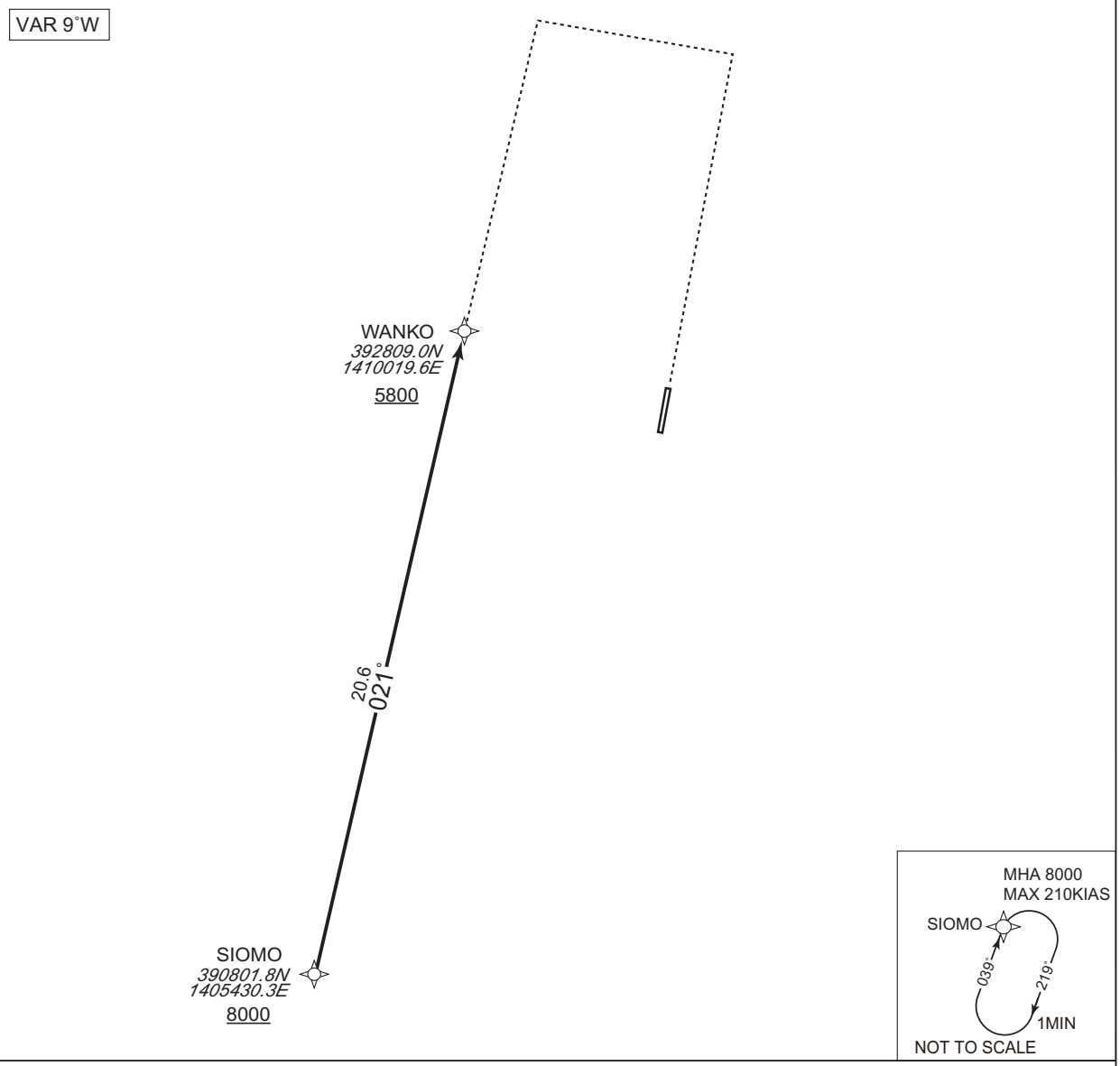
CHANGE : Description of VOR/DME.

STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI — RNAV STAR RWY20

WANKO ARRIVAL	RNP1

Note GNSS required



From SIOMO at or above 8000FT, to WANKO at or above 5800FT.

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	SIOMO	–	–	-8.8	–	–	+8000	–	–	RNP1
002	TF	WANKO	–	021 (012.6)	-8.8	20.6	–	+5800	–	–	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	SIOMO	039 (030.1)	-8.8	1.0(-14000)	R	8000	FL140	-210(-14000)	RNP1

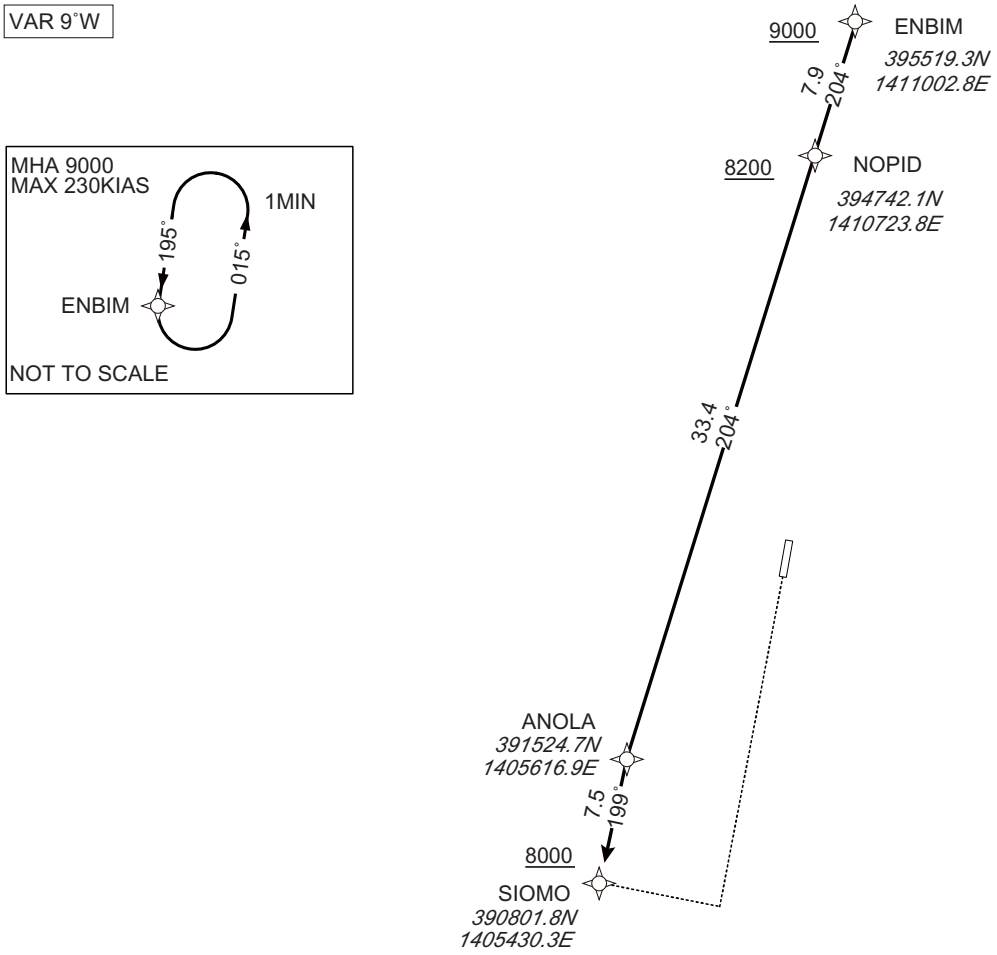
CHANGE : Description of VOR/DME.

STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI — RNAV STAR RWY02

SIOMO ARRIVAL	RNP1

Note GNSS required.



From ENBIM at or above 9000FT, to NOPID at or above 8200FT, to ANOLA, to SIOMO at or above 8000FT.

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	ENBIM	–	–	-8.8	–	–	+9000	–	–	RNP1
002	TF	NOPID	–	204 (195.0)	-8.8	7.9	–	+8200	–	–	RNP1
003	TF	ANOLA	–	204 (194.9)	-8.8	33.4	–	–	–	–	RNP1
004	TF	SIOMO	–	199 (190.6)	-8.8	7.5	–	+8000	–	–	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	ENBIM	195 (186.5)	-8.8	1.0(-14000)	L	9000	FL140	-230 (-14000)	RNP1

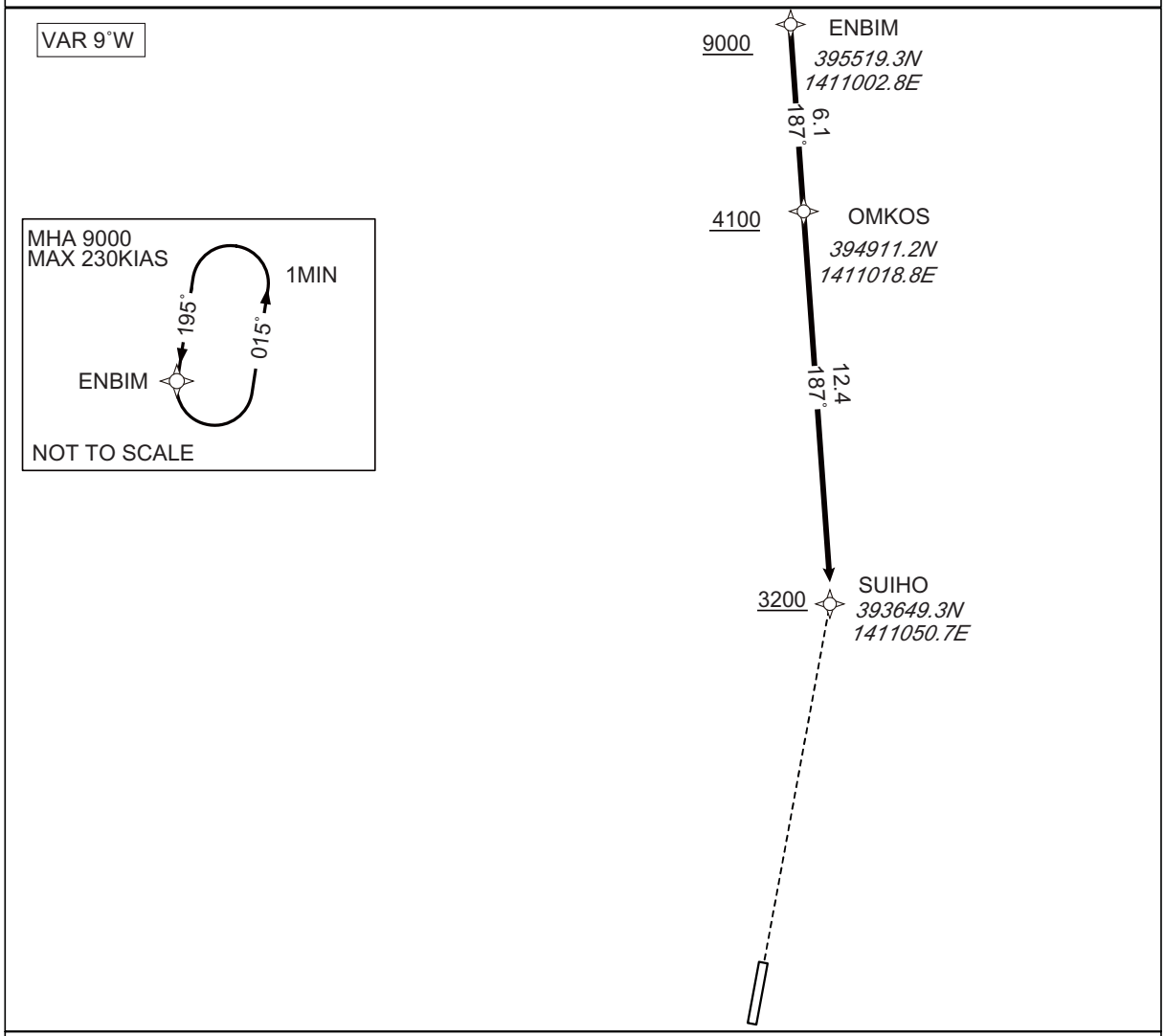
CHANGE : Description of VOR/DME.

STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI — RNAV STAR RWY20

SUIHO ARRIVAL	RNP1

Note GNSS required.



From ENBIM at or above 9000FT, to OMKOS at or above 4100FT, to SUIHO at or above 3200FT.

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	ENBIM	–	–	-8.8	–	–	+9000	–	–	RNP1
002	TF	OMKOS	–	187 (178.1)	-8.8	6.1	–	+4100	–	–	RNP1
003	TF	SUIHO	–	187 (178.1)	-8.8	12.4	–	+3200	–	–	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	ENBIM	195 (186.5)	-8.8	1.0(-14000)	L	9000	FL140	-230 (-14000)	RNP1

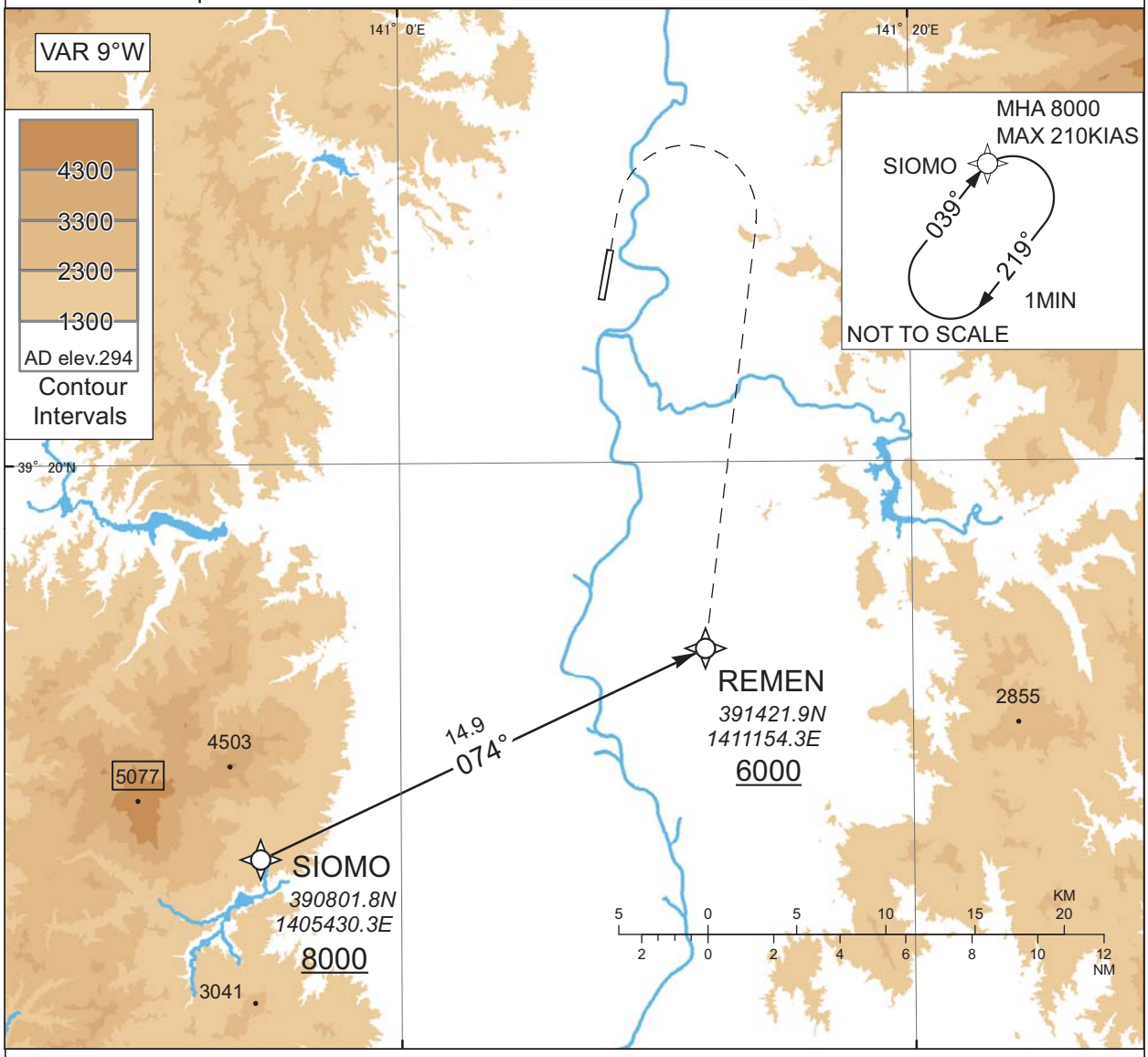
CHANGE : Description of VOR/DME.

STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI — RNAV STAR RWY20

REMEN WEST ARRIVAL — RNP1

Note GNSS required.



From SIOMO at or above 8000FT, to REMEN at or above 6000FT.

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	SIOMO	-	-	-8.8	-	-	+8000	-	-	RNP1
002	TF	REMEN	-	074 (064.7)	-8.8	14.9	-	+6000	-	-	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	SIOMO	039 (030.1)	-8.8	1.0(-14000)	R	8000	FL140	-210(-14000)	RNP1

CHANGE : Description of VOR/DME.

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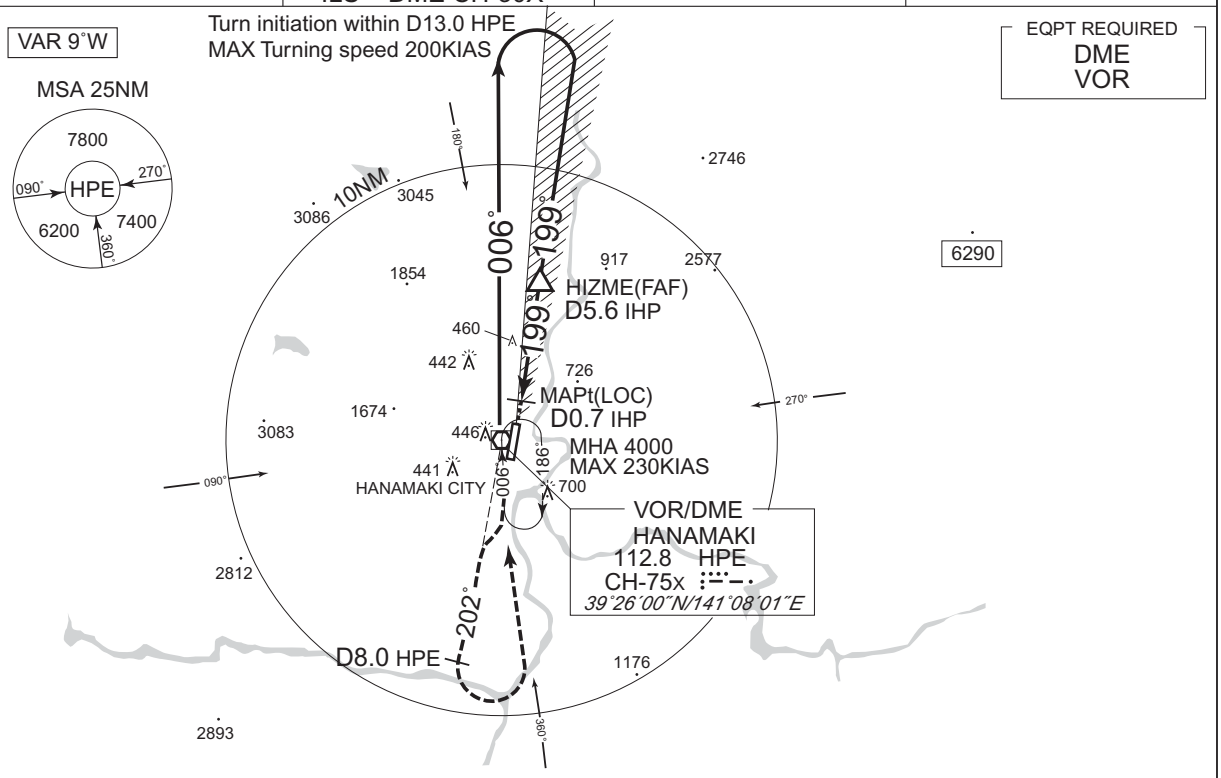
INSTRUMENT APPROACH CHART

RJSI / HANAMAKI — ILS Z or LOC Z RWY20

SHIRAKAMI APP	ILS – LOC	HANAMAKI RADIO	RADAR AVBL
119.25 - 315.3 - 120.65	109.3 IHP ILS – GP 332.0 ILS – DME CH-30X	118.2 – 126.2	



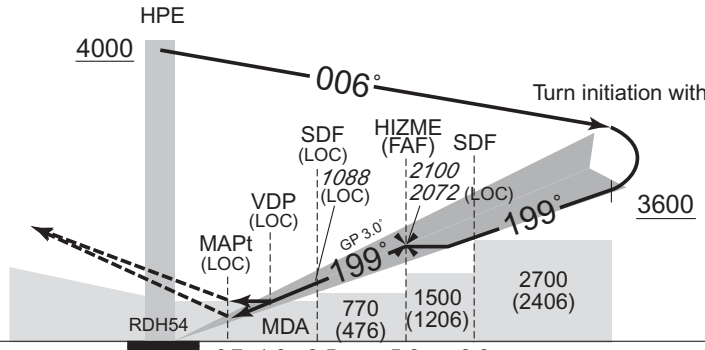
HIZME(FAF) : *393142.42N/1410935.33E*

NM to IHP	MAPt	2	3	4	5	FAF
ALT (3.0° APCH Path)	–	929	1247	1566	1884	2072

MISSED APPROACH

Climb via HPE R202 to HPE 8.0DME, turn left, direct to HPE VOR/DME and hold at 4000FT. Contact SHIRAKAMI APP.

Timing not authorized for defining the MAPt.



DME to IHP	0.2	0.7	1.3	2.5	5.6	9.3
NM to THR	0	0.5	1.2	2.3	5.4	9.1

MINIMA — THR elev. 298 — AD elev. 294

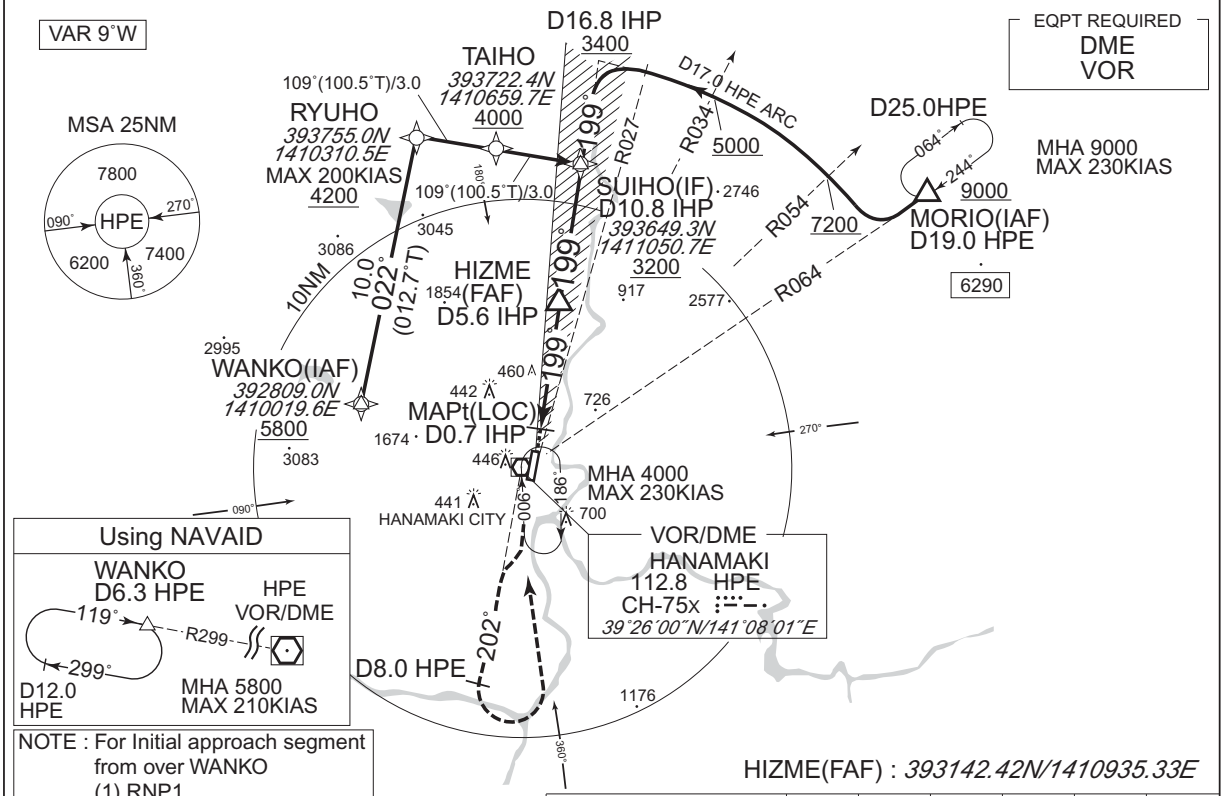
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	498 (200)	550	700 (406)	900	760 (466)	1600
B				1000	860 (566)	
C					1000 (706)	2400
D				1400		3200

CHANGE : VAR. MSA(BTN 270° and 360°). DME to IHP. NM to THR. MDA(H) for LOC.

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI — ILS Y or LOC Y RWY20

SHIRAKAMI APP	ILS – LOC 109.3 IHP ILS – GP 332.0 ILS – DME CH-30X	HANAMAKI RADIO	RADAR AVBL
119.25 - 315.3 - 120.65		118.2 – 126.2	

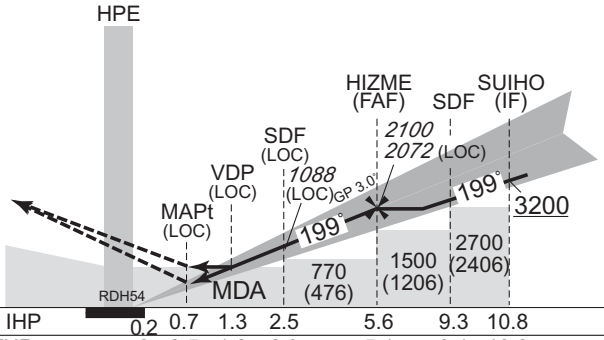


NM to IHP	MAPt	2	3	4	5	FAF
ALT (3.0° APCH Path)	–	929	1247	1566	1884	2072

MISSED APPROACH

Climb via HPE R202 to HPE 8.0DME, turn left, direct to HPE VOR/DME and hold at 4000FT. Contact SHIRAKAMI APP.

Timing not authorized for defining the MAPt.



DME to IHP	0.2	0.7	1.3	2.5	5.6	9.3	10.8
NM to THR	0	0.5	1.2	2.3	5.4	9.1	10.6

MINIMA — THR elev. 298 — AD elev. 294

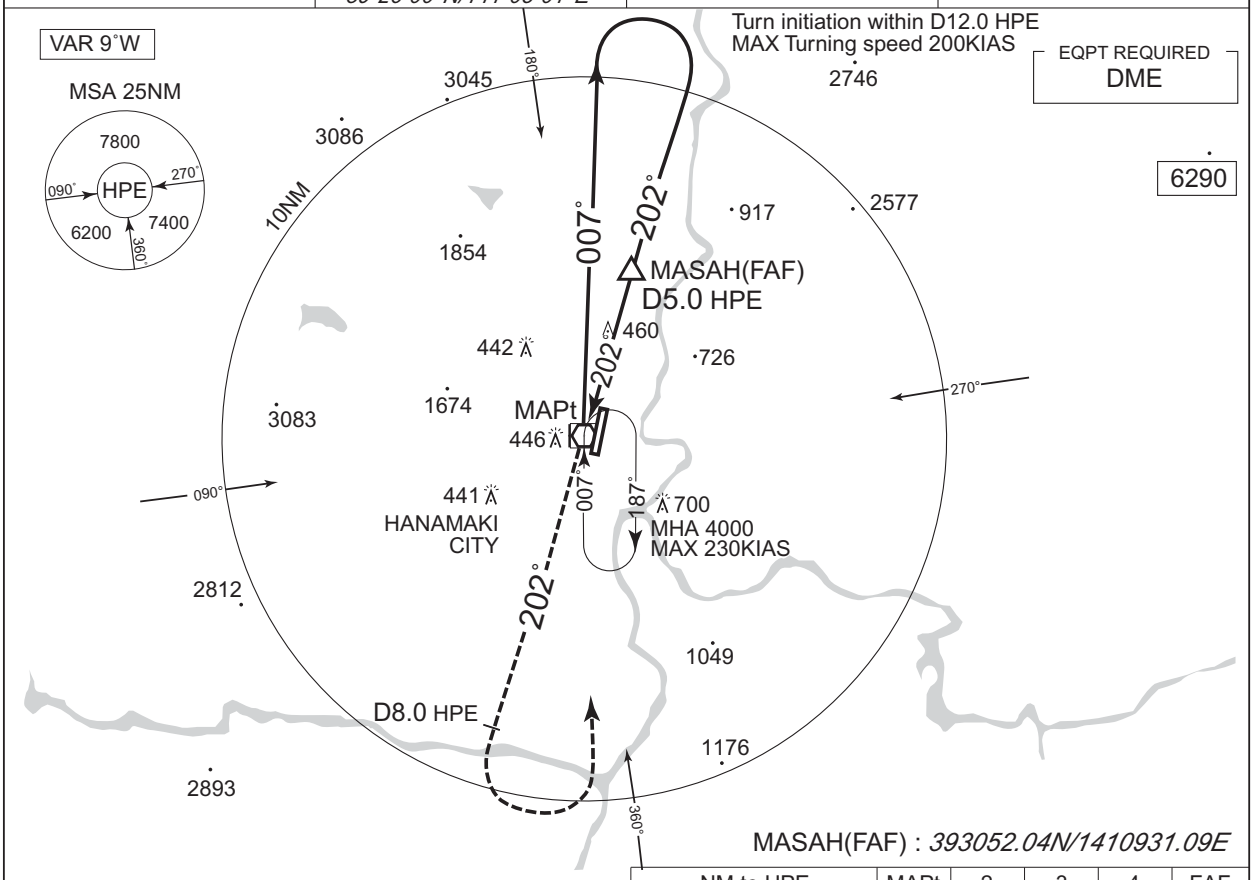
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	498 (200)	550	700 (406)	900	760 (466)	1600
B				1000	860 (566)	
C					1000 (706)	2400
D				1400		3200

CHANGE : DME to IHP. NM to THR. MDA(H) for LOC. MSA(BTN 270° and 360°).
VAR. Course FM WANKO to RYUHO. HLDG pattern at MORIO. HLDG pattern for using NAVAID.

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI — VOR RWY20

SHIRAKAMI APP	HANAMAKI VOR/DME	HANAMAKI RADIO	RADAR AVBL
119.25 - 315.3 - 120.65	112.8 HPE CH–75X *39°26′00″N/141°08′01″E*	118.2 – 126.2	



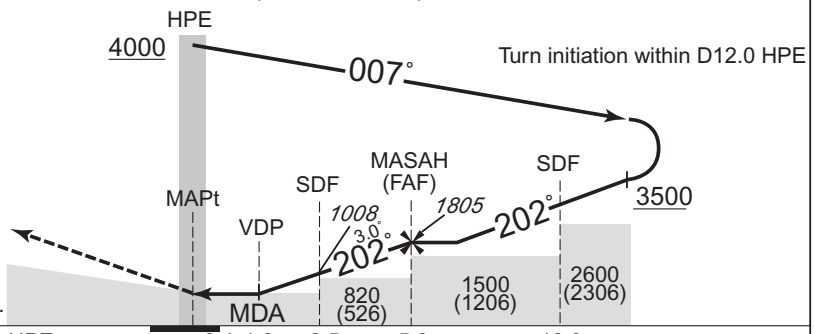
NM to HPE	MAPt	2	3	4	FAF
ALT (3.0° APCH Path)	–	849	1168	1486	1805

MISSED APPROACH

Climb via HPE R202 to HPE 8.0DME, turn left, direct to HPE VOR/DME and hold at 4000FT.

Contact SHIRAKAMI APP.

Timing not authorized for defining the MAPt.



DME to HPE	0.4	1.6	2.5	5.0	10.0
NM to THR	0	1.2	2.1	4.6	9.6

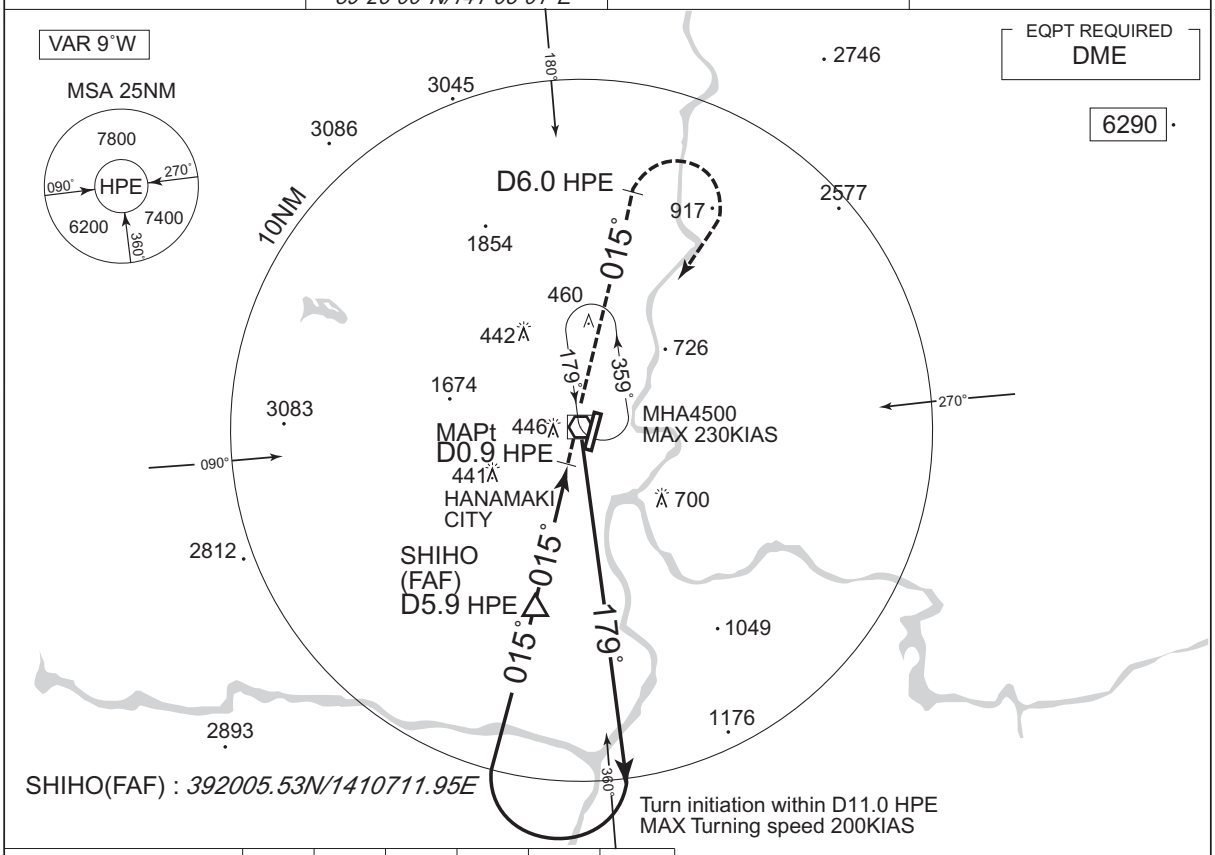
MINIMA	THR elev. 298		AD elev. 294	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	700 (406)	900	760 (466)	1600
B		1000	860 (566)	
C			1000 (706)	2400
D		1400		3200

CHANGE : VAR. MSA(BTN 270° and 360°). DME to HPE. NM to THR. MINIMA for MDA(H).

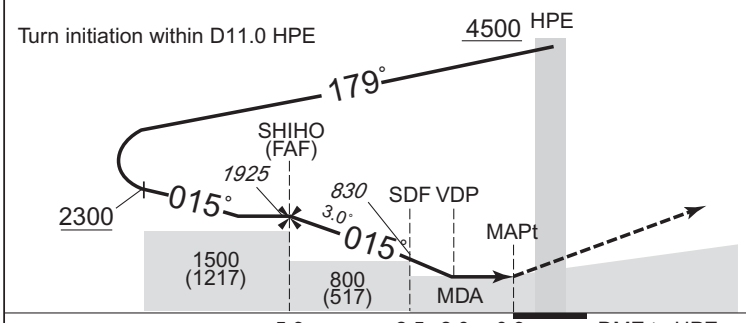
INSTRUMENT APPROACH CHART

RJSI / HANAMAKI VOR RWY02

SHIRAKAMI APP	HANAMAKI VOR/DME	HANAMAKI RADIO	RADAR AVBL
119.25 - 315.3 - 120.65	112.8 HPE CH–75X *39°26′00″N/141°08′01″E*	118.2 – 126.2	



NM to HPE	FAF	5	4	3	2	MAPt
ALT (3.0° APCH Path)	1925	1626	1308	989	671	–



MISSED APPROACH

Climb via HPE R015 to HPE 6.0DME, turn right, direct to HPE VOR/DME and hold at 4500FT. Contact SHIRAKAMI APP.

Timing not authorized for defining the MAPt.

5.9	2.5	2.0	0.9		DME to HPE
5.0	1.6	1.0	0		NM to THR

Missed APCH climb gradient MNM 3.6%

MINIMA THR elev. 283 AD elev. 294

CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	670 (387)	1200	760 (466)	1600
B		1300	860 (566)	
C		1400	1000 (706)	2400
D		1600		3200

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

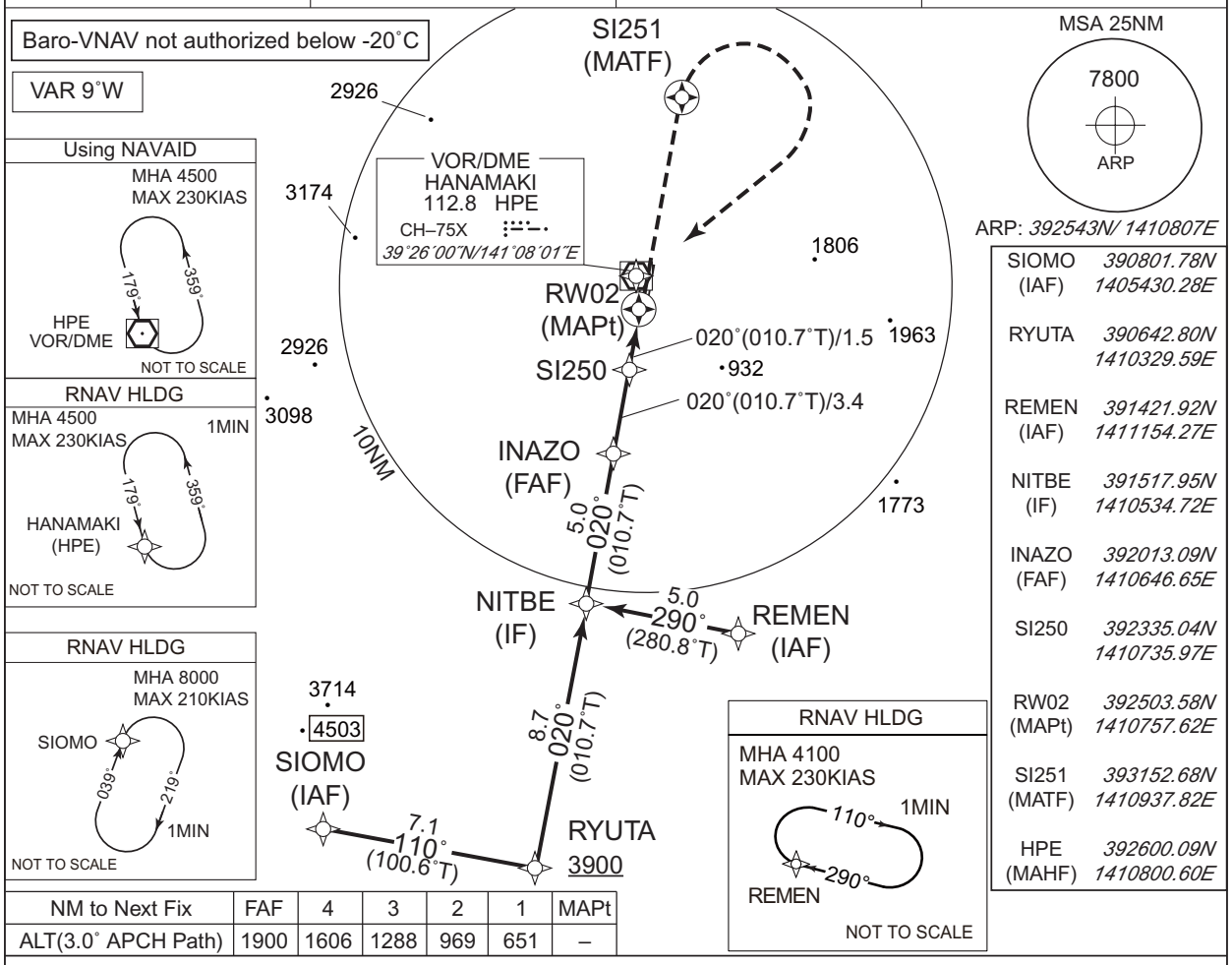
CHANGE : VAR. MSA(BTN 270° and 360°). PROC course. Missed APCH course. HLDG pattern. OCA(H). DME to HPE. MINIMA for MDA(H).

INSTRUMENT APPROACH CHART

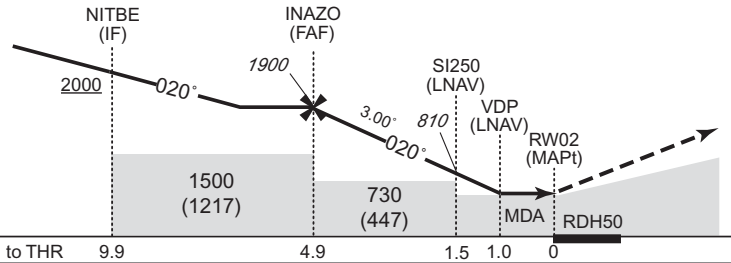
RJSI / HANAMAKI

RNP Z RWY02

SHIRAKAMI APP 119.25 - 315.3 - 120.65	RNP APCH	HANAMAKI RADIO 118.2 – 126.2	RADAR AVBL



NM to Next Fix	FAF	4	3	2	1	MAPt
ALT(3.0˚ APCH Path)	1900	1606	1288	969	651	–



MISSED APPROACH

Climb direct to SI251, turn right direct to HPE and hold at 4500FT.
Contact SHIRAKAMI APP.

Missed APCH climb gradient MNM 4 .0%

MINIMA	THR elev.283		AD elev.294			
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	610(327)	1200	660(377)	1200	760(466)	1600
B		1300		1300	860(566)	
C	630(347)	1400		1400	1000(706)	2400
D	650(367)	1600		1600		3200

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

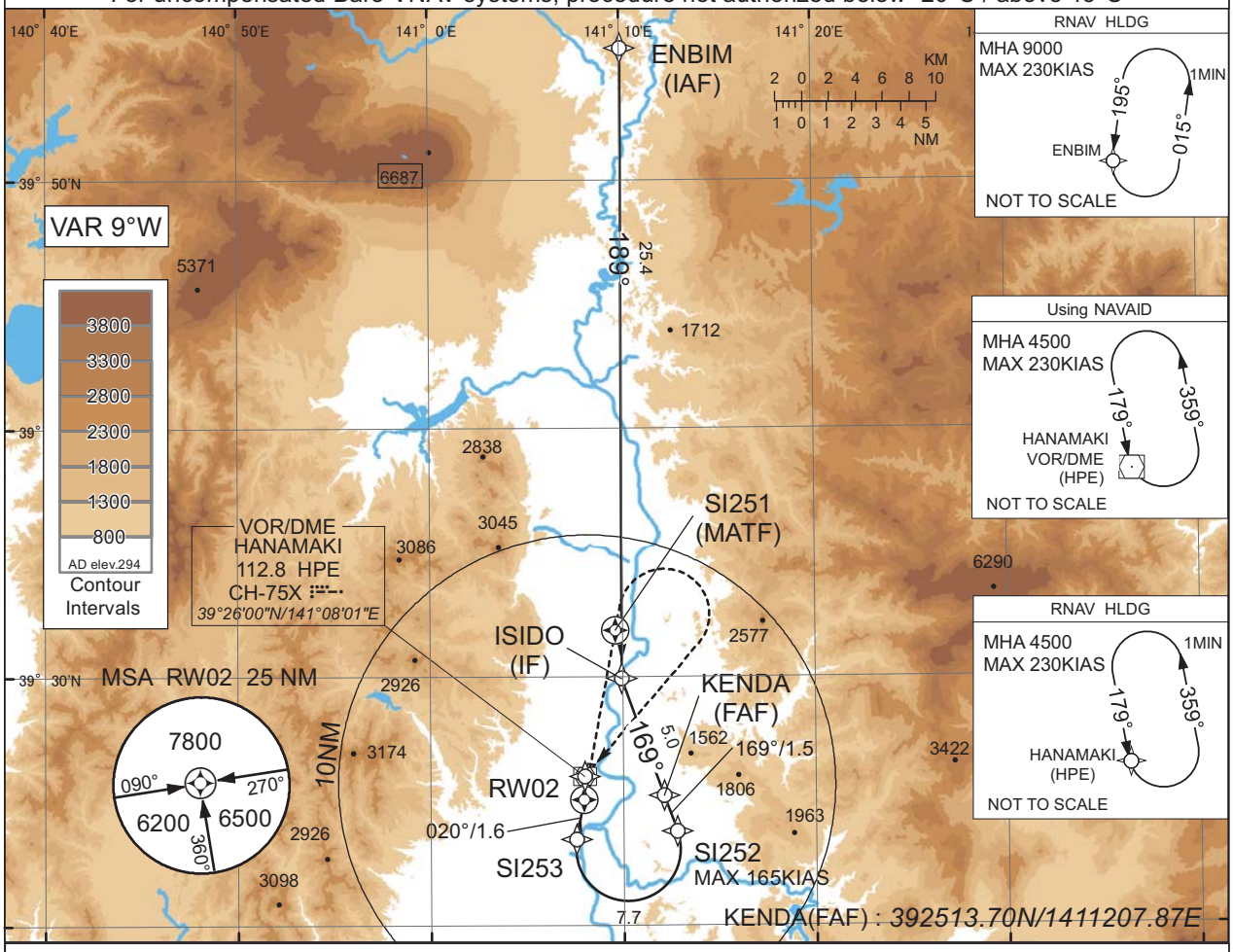
CHANGE : Course FM NITBE to SI250, in profile view.

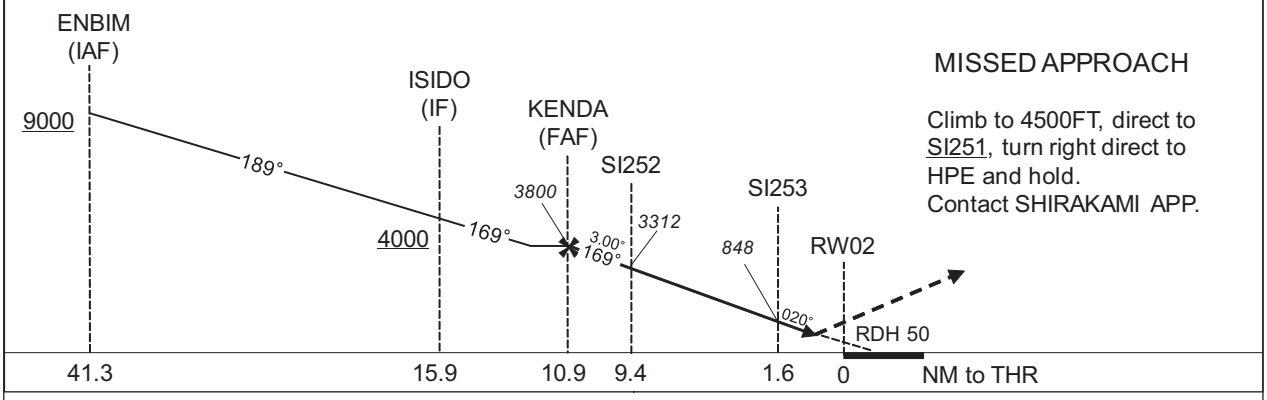
INSTRUMENT APPROACH CHART

RJSI / HANAMAKI — RNP Y RWY02(AR)

SHIRAKAMI APP 119.25 - 315.3 - 120.65	RNP AR RF required.	HANAMAKI RADIO 118.2 - 126.2	RADAR AVBL

For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C





Missed APCH climb gradient MNM 4.0%

MINIMA	THR elev. 283	AD elev. 294
CAT	RNP 0.30	
	DA(H)	CMV
A	-	-
B		
C	595(312)	1400
D		1600

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

Authorization Required

CHANGE : HLDG pattern for using NAVAID. RNAV HLDG at HANAMAKI.

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI RNP Y RWY02(AR)

CHANGE : HLDG at HPE. VAR.

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	ENBIM	-	-	-8.8	-	-	+9000	-	-	-
002	TF	ISIDO	-	189 (180.2)	-8.8	25.4	-	+4000	-	-	1.0
003	TF	KENDA	-	169 (160.3)	-8.8	5.0	-	3800	-	-	1.0
004	TF	SI252	-	169 (160.4)	-8.8	1.5	-	3312	-165	-3.00	0.3
005	RF Center: SIRF1 r=2.10NM	SI253	-	-	-8.8	7.7	R	848	-	-3.00	0.3
006	TF	RW02	Y	020 (010.7)	-8.8	1.6	-	333	-	-3.00/50	0.3
007	DF	SI251	Y	-	-8.8	-	-	-	-	-	1.0
008	DF	HPE	-	-	-8.8	-	R	4500	-	-	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	ENBIM	195 (186.5)	-8.8	1.0 (-14000)	L	9000	FL140	-230 (-14000)	1.0
Hold	HPE	179 (169.7)	-8.9	1.0 (-14000)	L	4500	FL140	-230 (-14000)	1.0

Waypoint Coordinates

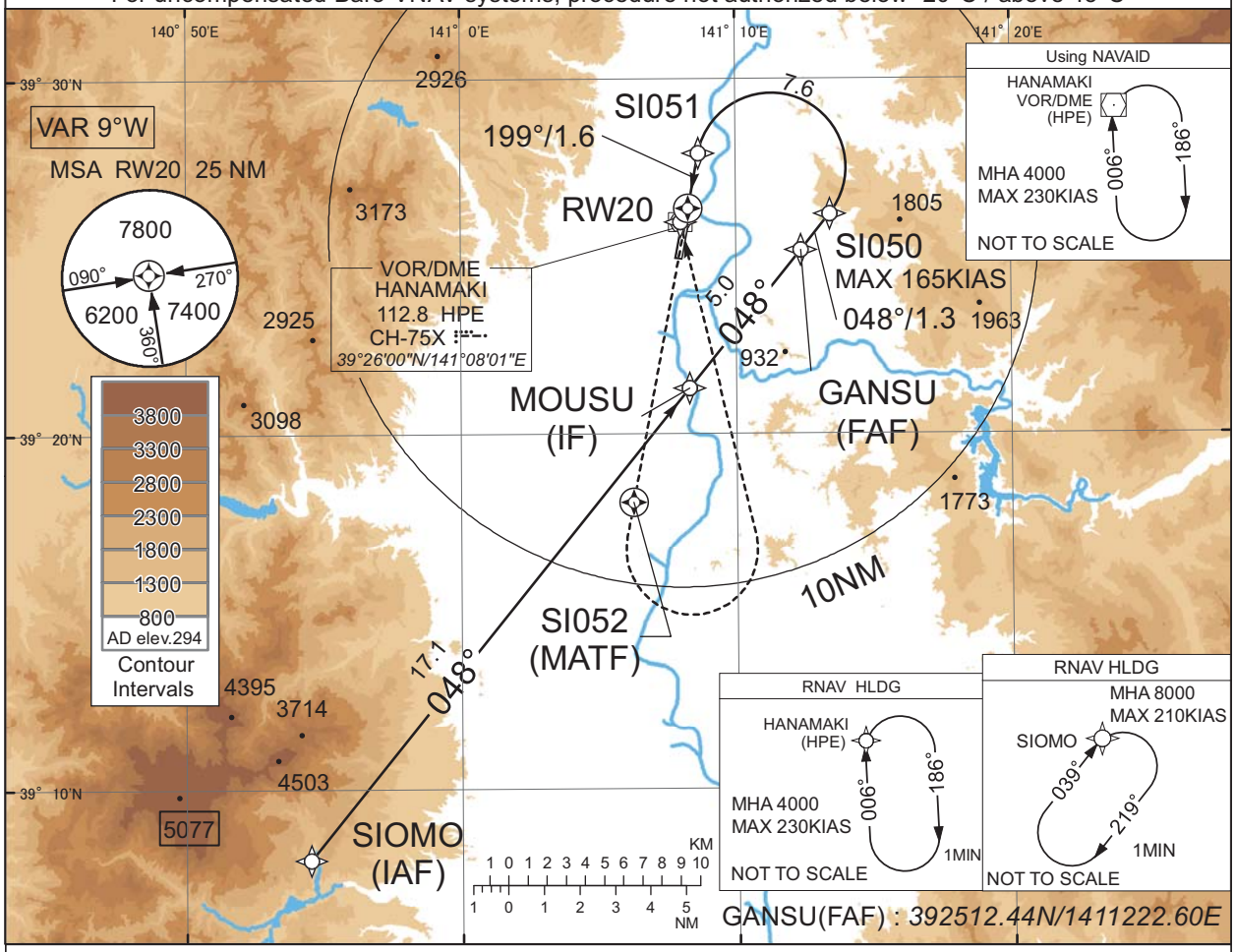
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ENBIM	*395519.34N / 1411002.82E*	SIRF1	*392304.37N / 1411014.42E*
ISIDO	*392956.45N / 1410957.05E*		
KENDA	*392513.70N / 1411207.87E*		
SI252	*392347.07N / 1411247.89E*		
SI253	*392327.97N / 1410734.24E*		
RW02	*392503.58N / 1410757.62E*		
SI251	*393152.68N / 1410937.82E*		
HPE	*392600.09N / 1410800.60E*		

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI — RNP Z RWY20(AR)

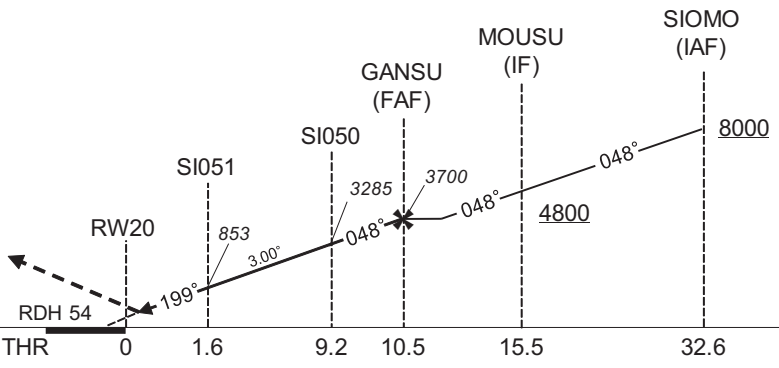
SHIRAKAMI APP 119.25 - 315.3 - 120.65	RNP AR RF required.	HANAMAKI RADIO 118.2 - 126.2	RADAR AVBL

For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C



MISSED APPROACH

Climb to 4000FT, direct to SI052, turn left direct to HPE and hold.
Contact SHIRAKAMI APP.



MINIMA	THR elev. 298	AD elev. 294
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B		
C	607(309)	1000
D		1400

Authorization Required

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

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI RNP Z RWY20(AR)

CHANGE : PROC renamed.

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	SIOMO	-	-	-8.8	-	-	+8000	-	-	-
002	TF	MOUSU	-	048 (038.8)	-8.8	17.1	-	+4800	-	-	1.0
003	TF	GANSU	-	048 (038.9)	-8.8	5.0	-	3700	-	-	1.0
004	TF	SI050	-	048 (038.9)	-8.8	1.3	-	3285	-165	-3.00	0.3
005	RF Center: SIRF2 r=2.10NM	SI051	-	-	-8.8	7.6	L	853	-	-3.00	0.3
006	TF	RW20	Y	199 (190.7)	-8.8	1.6	-	352	-	-3.00/54	0.3
007	DF	SI052	Y	-	-8.8	-	-	-	-	-	1.0
008	DF	HPE	-	-	-8.8	-	L	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	SIOMO	039 (030.1)	-8.8	1.0 (-14000)	R	8000	FL140	-210 (-14000)	1.0
Hold	HPE	006 (357.5)	-8.8	1.0 (-14000)	R	4000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

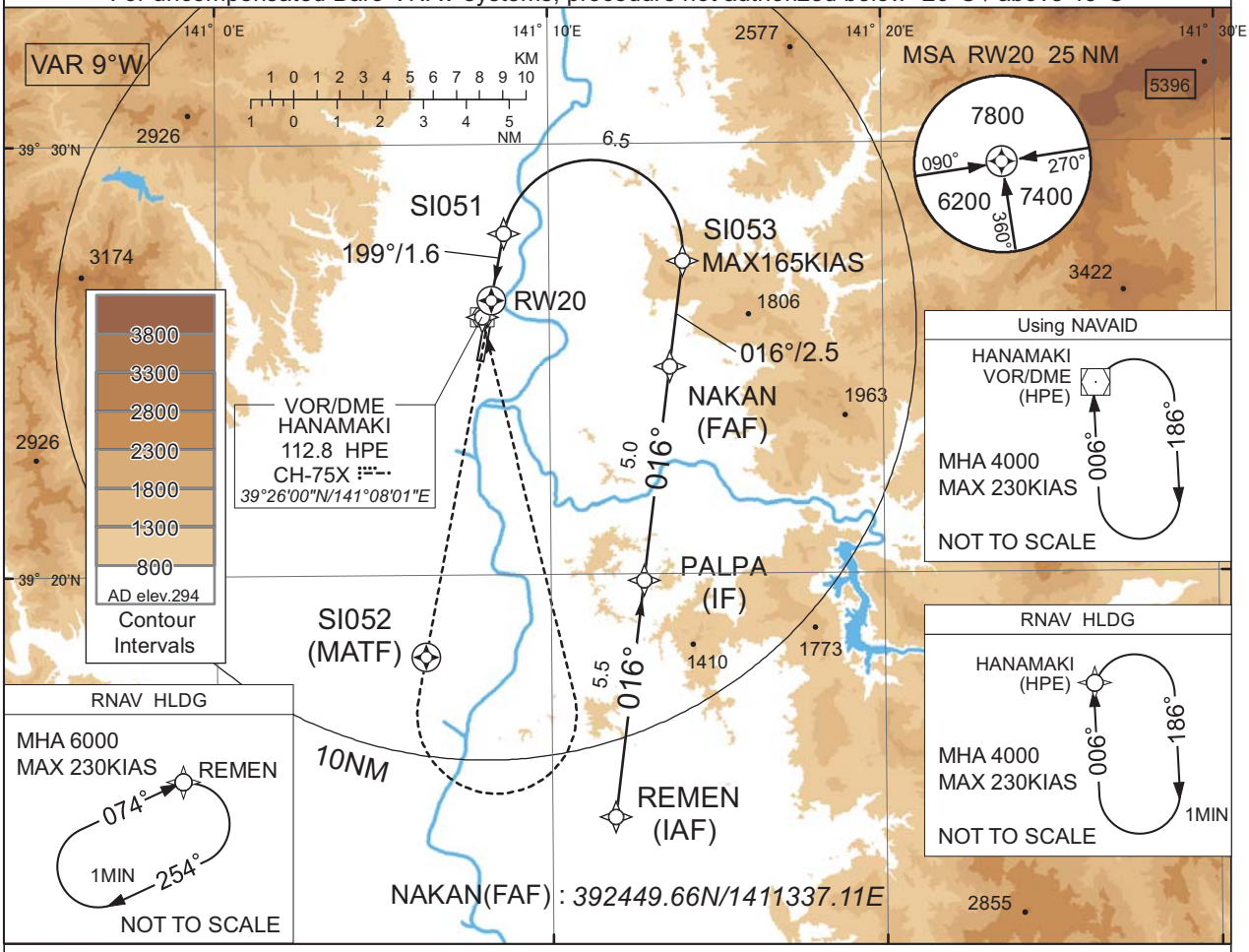
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
SIOMO	*390801.78N / 1405430.28E*	SIRF2	*392732.73N / 1411119.82E*
MOUSU	*392119.11N / 1410818.81E*		
GANSU	*392512.44N / 1411222.60E*		
SI050	*392613.23N / 1411326.21E*		
SI051	*392756.30N / 1410839.89E*		
RW20	*392623.24N / 1410817.11E*		
SI052	*391806.42N / 1410615.76E*		
HPE	*392600.09N / 1410800.60E*		

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI — RNP Y RWY20(AR)

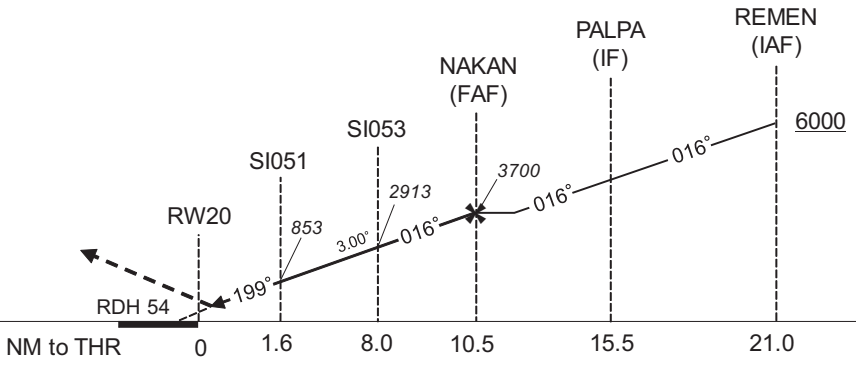
SHIRAKAMI APP 119.25 - 315.3 - 120.65	RNP AR RF required.	HANAMAKI RADIO 118.2 - 126.2	RADAR AVBL

For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C



MISSED APPROACH

Climb to 4000FT, direct to SI052, turn left direct to HPE and hold.
Contact SHIRAKAMI APP.



MINIMA	THR elev. 298	AD elev. 294
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B	-	-
C	607(309)	1000
D		1400

Authorization Required

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

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI RNP Y RWY20(AR)

CHANGE : PROC renamed.

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	REMEN	-	-	-8.8	-	-	+6000	-	-	-
002	TF	PALPA	-	016 (007.2)	-8.8	5.5	-	-	-	-	1.0
003	TF	NAKAN	-	016 (007.2)	-8.8	5.0	-	3700	-	-	1.0
004	TF	SI053	-	016 (007.2)	-8.8	2.5	-	2913	-165	-3.00	0.3
005	RF Center: SIRF2 r=2.10NM	SI051	-	-	-8.8	6.5	L	853	-	-3.00	0.3
006	TF	RW20	Y	199 (190.7)	-8.8	1.6	-	352	-	-3.00/54	0.3
007	DF	SI052	Y	-	-8.8	-	-	-	-	-	1.0
008	DF	HPE	-	-	-8.8	-	L	4000	-	-	1.0

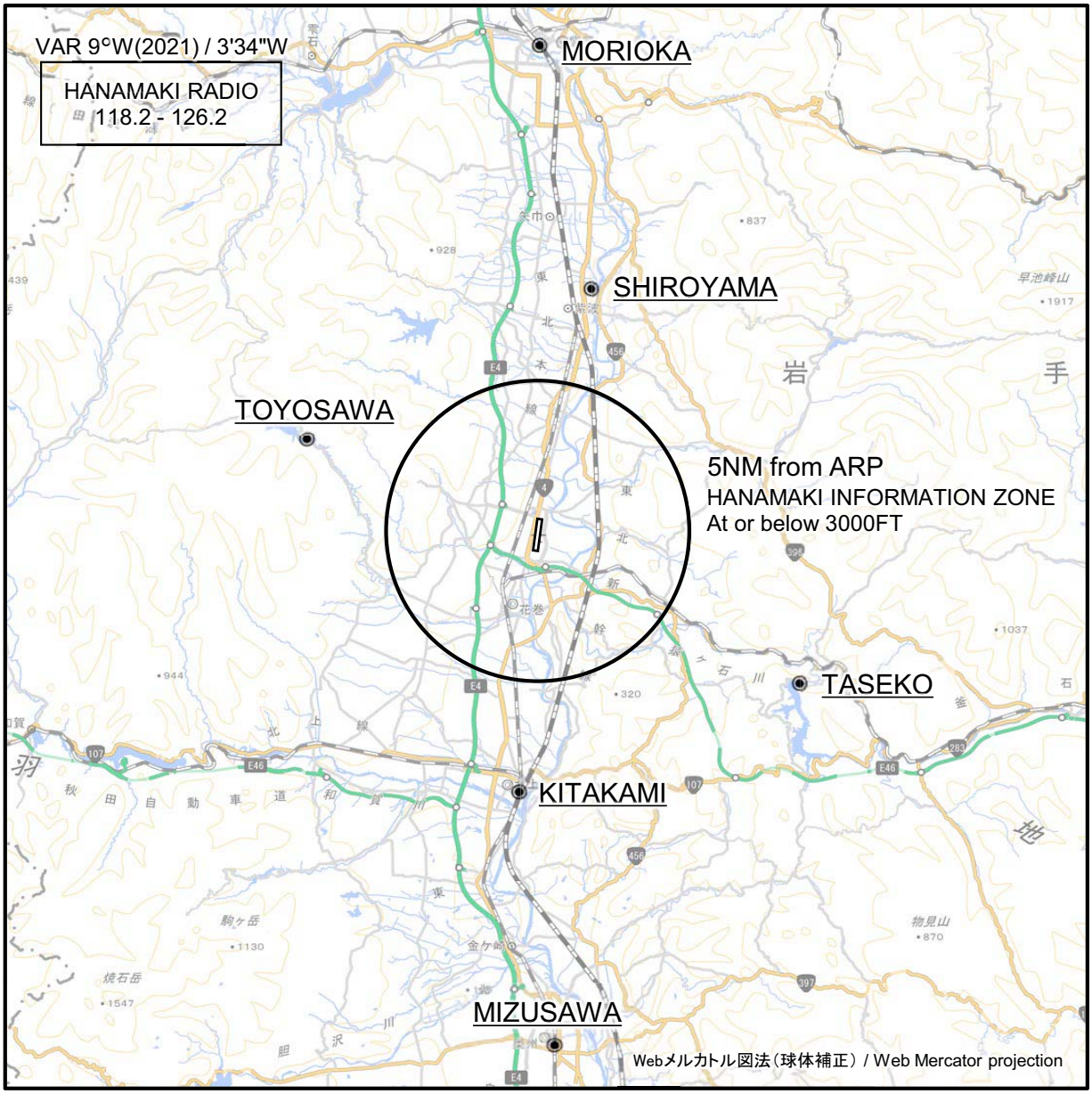
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	REMEN	074 (065.0)	-8.8	1.0 (-14000)	R	6000	FL140	-230 (-14000)	1.0
Hold	HPE	006 (357.5)	-8.8	1.0 (-14000)	R	4000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
REMEN	*391421.92N / 1411154.27E*	SIRF2	*392732.73N / 1411119.82E*
PALPA	*391951.68N / 1411248.23E*		
NAKAN	*392449.66N / 1411337.11E*		
SI053	*392716.81N / 1411401.29E*		
SI051	*392756.30N / 1410839.89E*		
RW20	*392623.24N / 1410817.11E*		
SI052	*391806.42N / 1410615.76E*		
HPE	*392600.09N / 1410800.60E*		

RJSI / HANAMAKI

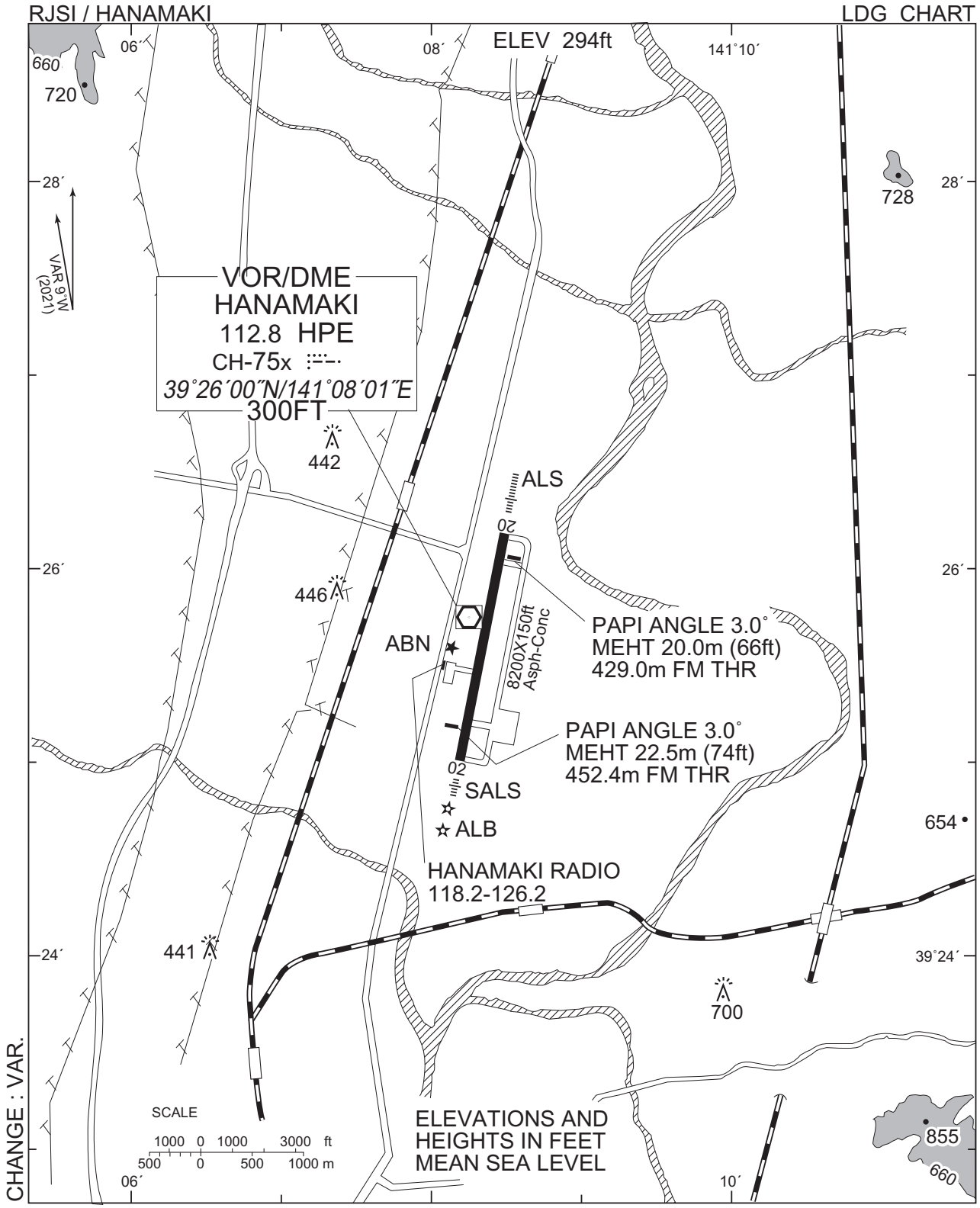
Visual REP



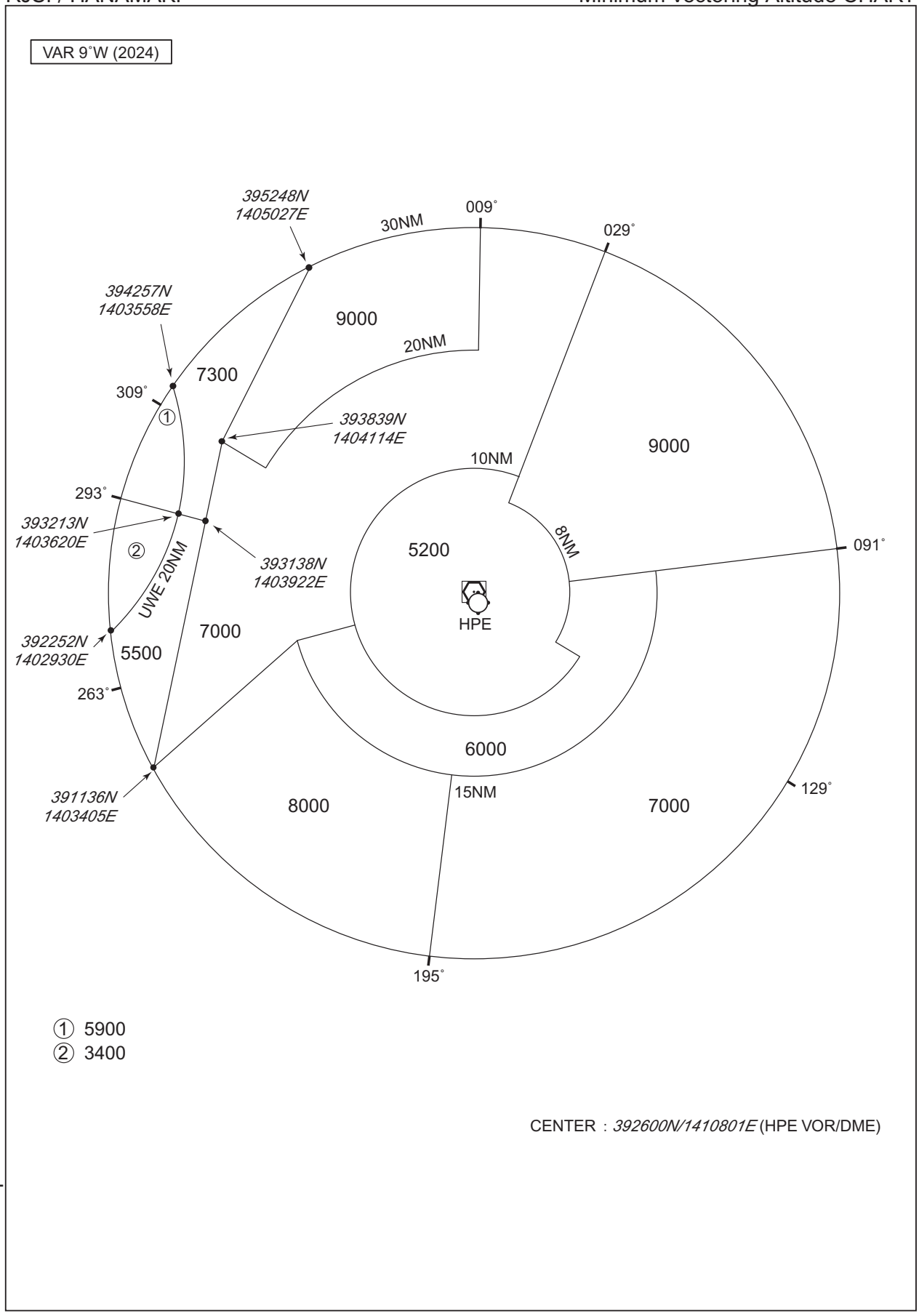
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP. Taseko established. Tsuchisawa abolished.

Call sign	BRG / DIST from ARP	Remarks
盛岡 Morioka	360°T / 16.4NM	JR駅 JR Station
城山 Shiroyama	012°T / 8.4NM	城跡 The site of a castle
豊沢 Toyosawa	293°T / 8.1NM	豊沢ダム Dam
田瀬湖 Taseko	121°T / 10.0NM	田瀬ダム Dam
北上 Kitakami	184°T / 8.9NM	JR駅 JR Station
水沢 Mizusawa	178°T / 17.4NM	JR駅 JR Station


RJSI / HANAMAKI
LDG CHART
ELEV 294ft
141˚10´
06´
08´
28´
26´
24´
10´
660
720
728
654
855
660
VAR 9˚W (2021)
VOR/DME
HANAMAKI
112.8 HPE
CH-75x
39˚26´00˝N/141˚08´01˝E
300FT
442
446
441
700
ALS
20
02
ABN
8200X150ft Asph-Conc
PAPI ANGLE 3.0˚
MEHT 20.0m (66ft)
429.0m FM THR
PAPI ANGLE 3.0˚
MEHT 22.5m (74ft)
452.4m FM THR
SALS
ALB
HANAMAKI RADIO
118.2-126.2
SCALE
1000 0 1000 3000 ft
500 0 500 1000 m
ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL
CHANGE : VAR.

RJSI / HANAMAKI Minimum Vectoring Altitude CHART



CHANGE : Update.