

HANAMAKI AP
 HANAMAKI RADIO
 118.2 - 126.2

REMARKS:
 Dimensions of RWY 2500m x 45m (RWY GROOVING 2500m x 45m)
 Strength and surface of RWY PCN 68/F/A/X/T Asphalt
 Designations RWY NR 02/20
 Magnetic BRG 18°/198°
 TWY width and strength
 T1, T4 PCN 68/F/B/X/T 28.5m
 T2, T3 PCN 67/F/B/X/T 34m
 T5 PCN 75/F/C/X/T 30m
 P1-P3 PCN 68/F/B/X/T 23m
 Apron strength PCN 74/R/B/X/T
 W-Apron strength PCN 52/R/B/X/T
 (APRON FOR SMALL ACFT) (AUW5700kg/0.28MPa)

LONGITUDINAL PROFILE OF RWY
 294.3ft 1310m 1732m 293.3ft 297.5ft 2500m
 0.6% 0.2% 0.6% 0.3% LEVEL

APCH LGT BEACONS
 334m 420m 596m
 283.4ft 285.4ft 297.5ft

SEQUENCED FLASHING LGT (SFL-V)
 900m

DETAIL-A
 RWY HLDG PSN markings
 RWY SIDE
 T1, T2, T3, T4, T5-TWY

DETAIL-B
 ALS

WIND SPEED METER
 452.4m
 7v1
 WDI
 392503.58N 1410757.62E

TAXIING GUIDANCE SIGN
 392503.58N 1410757.62E

APRON FLOOD LGT
 5v3
 5v2
 5v1

APRON
 FIRE STATION
 APRON FOR SMALL ACFT

W-APRON
 ABN

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STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

➡ SID

OHSU ONE DEPARTURE

RWY 02 : Climb RWY HDG to 900FT, turn left...

RWY 20 : Climb RWY HDG to 1300FT, turn left HDG 324° ...
...to intercept and proceed via HPE R009 to OHSU.

OHSU ONE DEPARTURE



STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

SID

NIIGATA FOUR 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 GTC VORTAC.

Cross HPE VOR/DME at or above 2200 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.



STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

SID

HANAMAKI REVERSAL TWO 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 R194 to 6.0 DME, turn left...

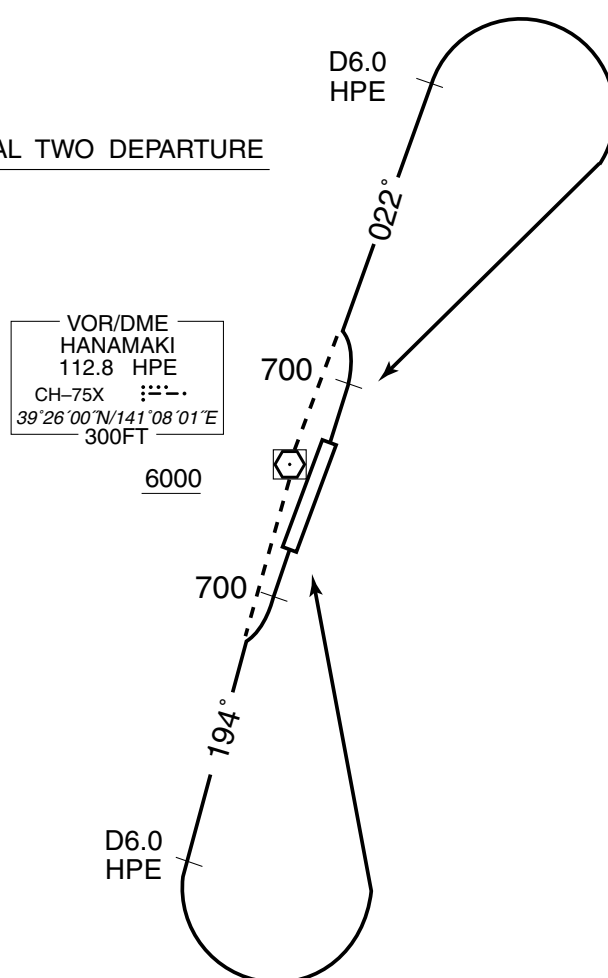
...proceed to HPE VOR/DME.

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.

HANAMAKI REVERSAL TWO DEPARTURE



STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

RNAV SID

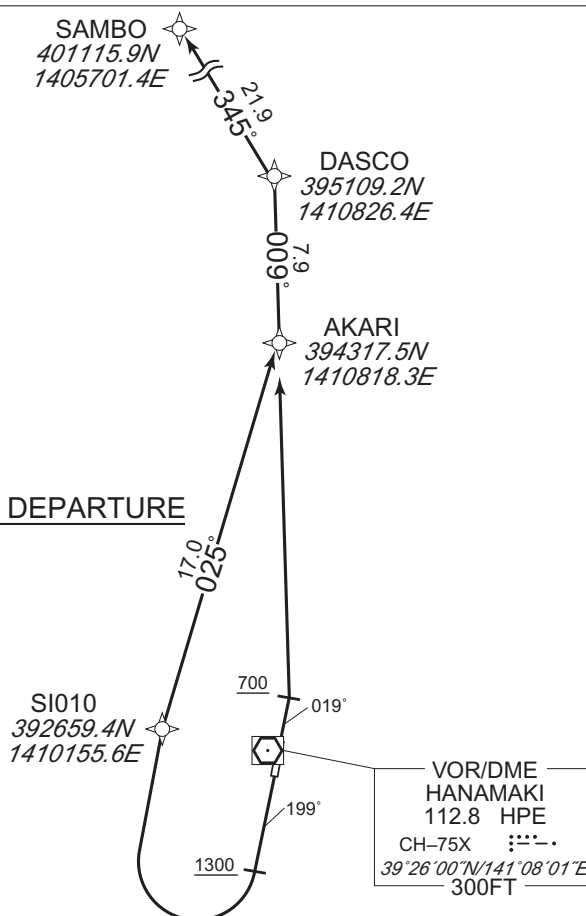
SAMBO ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2021)

SAMBO ONE DEPARTURE



SAMBO ONE DEPARTURE

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

CHANGE : VAR. Note RWY20 (OBST).

STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

RNAV SID

HANKA ONE DEPARTURE	Basic RNP1
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Note GNSS required

VAR 9°W (2021)



HANKA ONE DEPARTURE

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.

RWY02

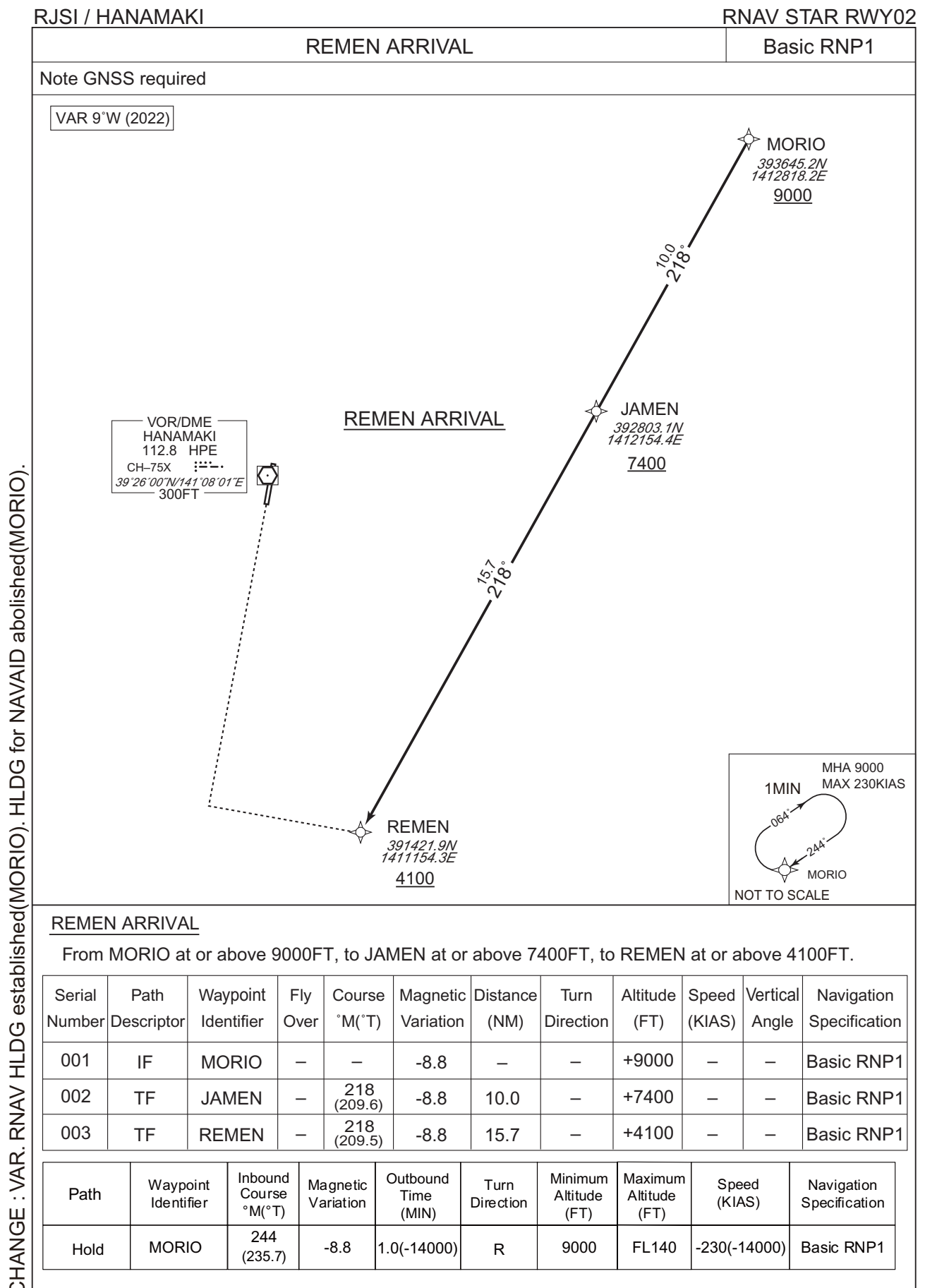
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	019 (010.7)	-8.7	—	—	+1600	—	—	Basic RNP1
002	DF	HANKA	—	—	-8.7	—	L	+11000	—	—	Basic RNP1

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	—	—	Basic RNP1
002	DF	HANKA	—	—	-8.7	—	R	+11000	—	—	Basic RNP1

CHANGE : VAR. Note RWY20 (OBST).

STANDARD ARRIVAL CHART - INSTRUMENT



STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

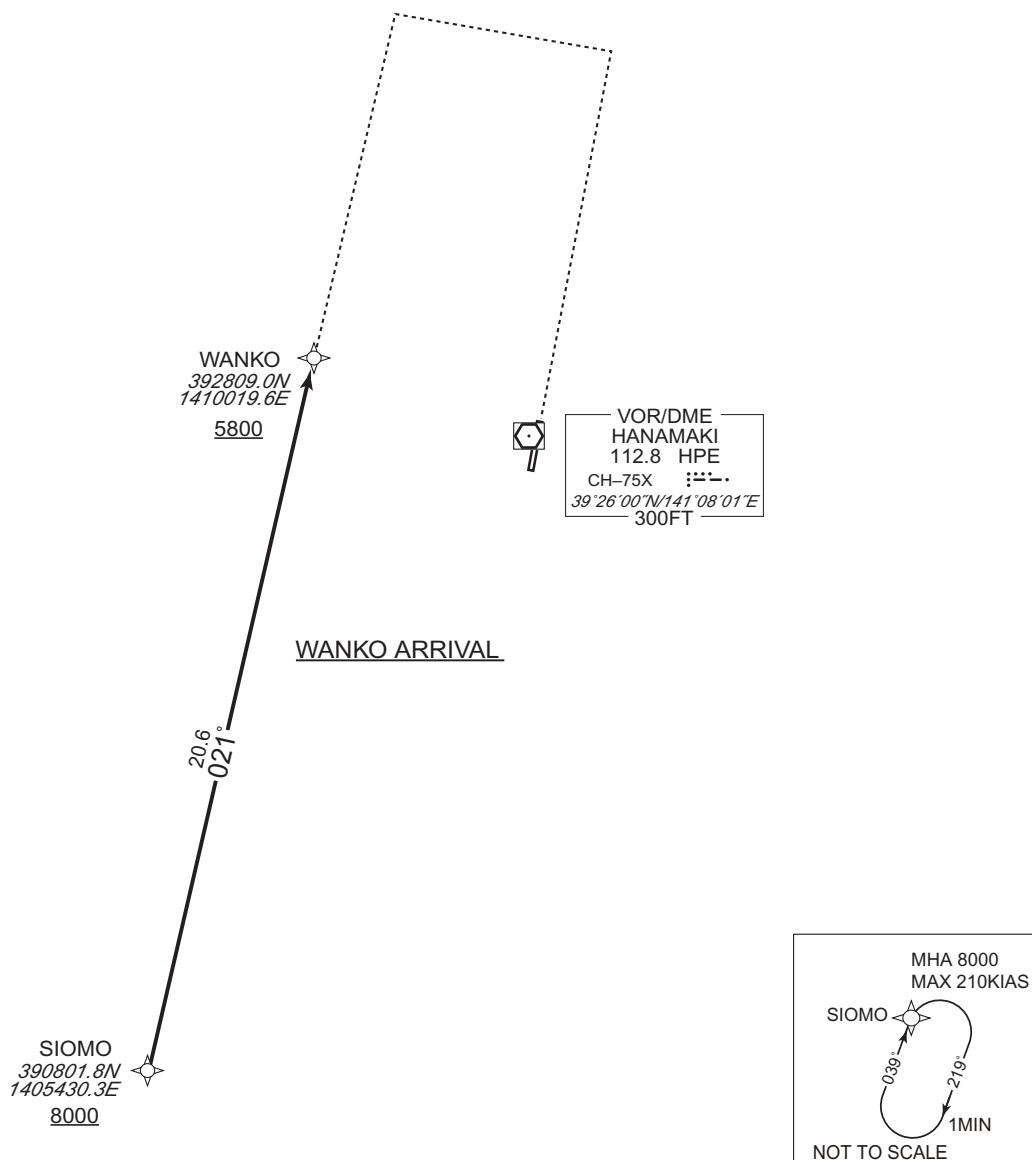
RNAV STAR RWY20

WANKO ARRIVAL

Basic RNP1

Note GNSS required

VAR 9°W (2022)



WANKO ARRIVAL

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	—	—	Basic RNP1
002	TF	WANKO	—	021 (012.6)	-8.8	20.6	—	+5800	—	—	Basic 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)	Basic RNP1

CHANGE : VAR. RNAV HLDG established(SIOMO). HLDG for NAVAID abolished(SIOMO).

STANDARD ARRIVAL CHART - INSTRUMENT

CHANGE : VAR. Course FM ESBEL to SIOMO. HLDG pattern(RNAV) abolished. HLDG pattern(Using NAVAID) abolished. HLDG pattern(RNAV) established.
Coding table(Hold) added.



STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

RNAV STAR RWY20

SUIHO ARRIVAL

Basic RNP1

Note GNSS required.

VAR 9°W (2021)



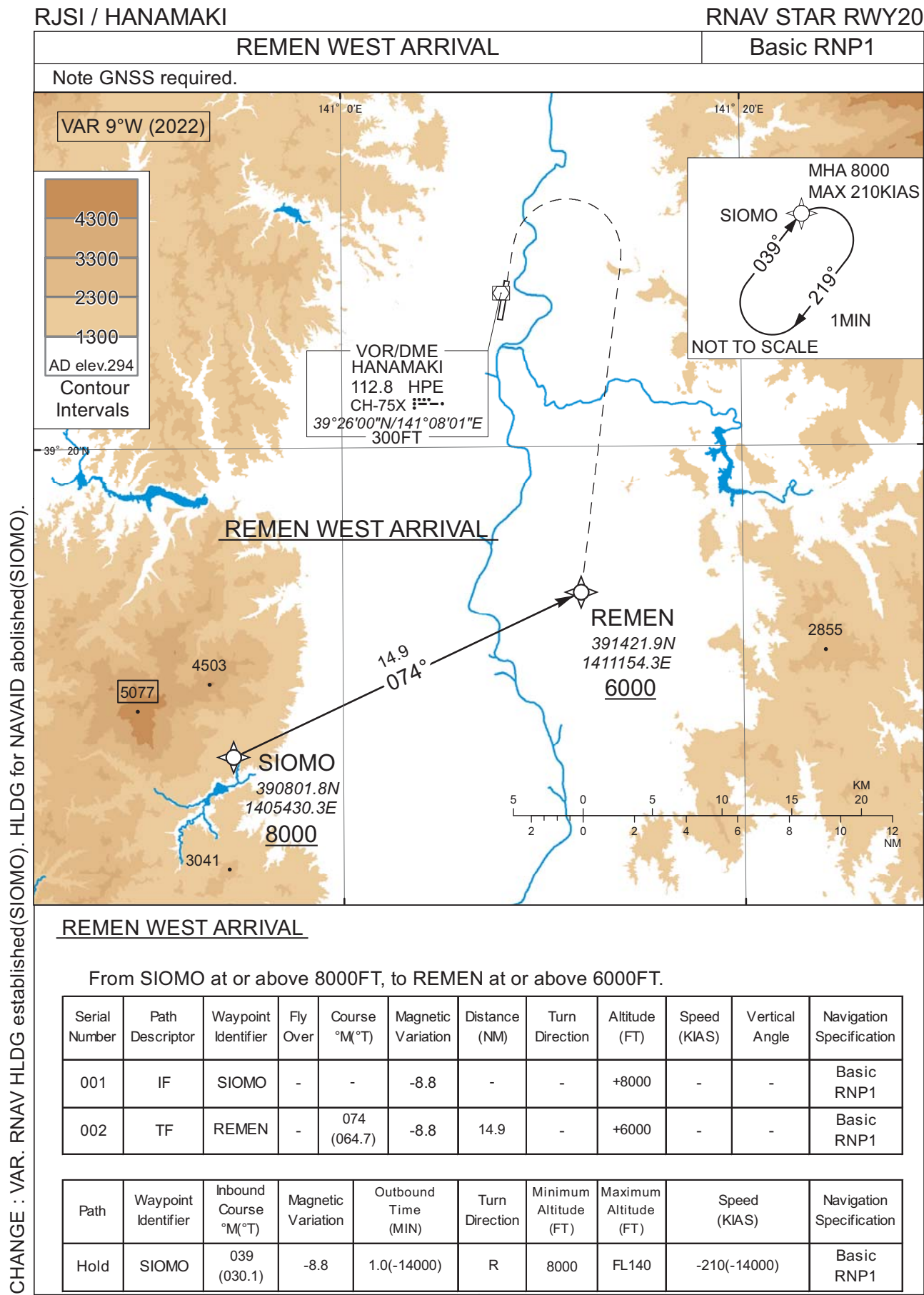
SUIHO ARRIVAL

From ESBEL at or above 9000FT, to MAMEB at or above 8200FT, to NONBE at or above 6600FT, 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	ESBEL	—	—	-8.7	—	—	+9000	—	—	Basic RNP1
002	TF	MAMEB	—	159 (150.7)	-8.7	4.6	—	+8200	—	—	Basic RNP1
003	TF	NONBE	—	159 (150.8)	-8.7	3.4	—	+6600	—	—	Basic RNP1
004	TF	SUIHO	—	160 (150.8)	-8.7	10.0	—	+3200	—	—	Basic 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	ESBEL	174 (165.3)	-8.7	1.0(-14000)	R	9000	FL140	-230 (-14000)	Basic RNP1

STANDARD ARRIVAL CHART - INSTRUMENT

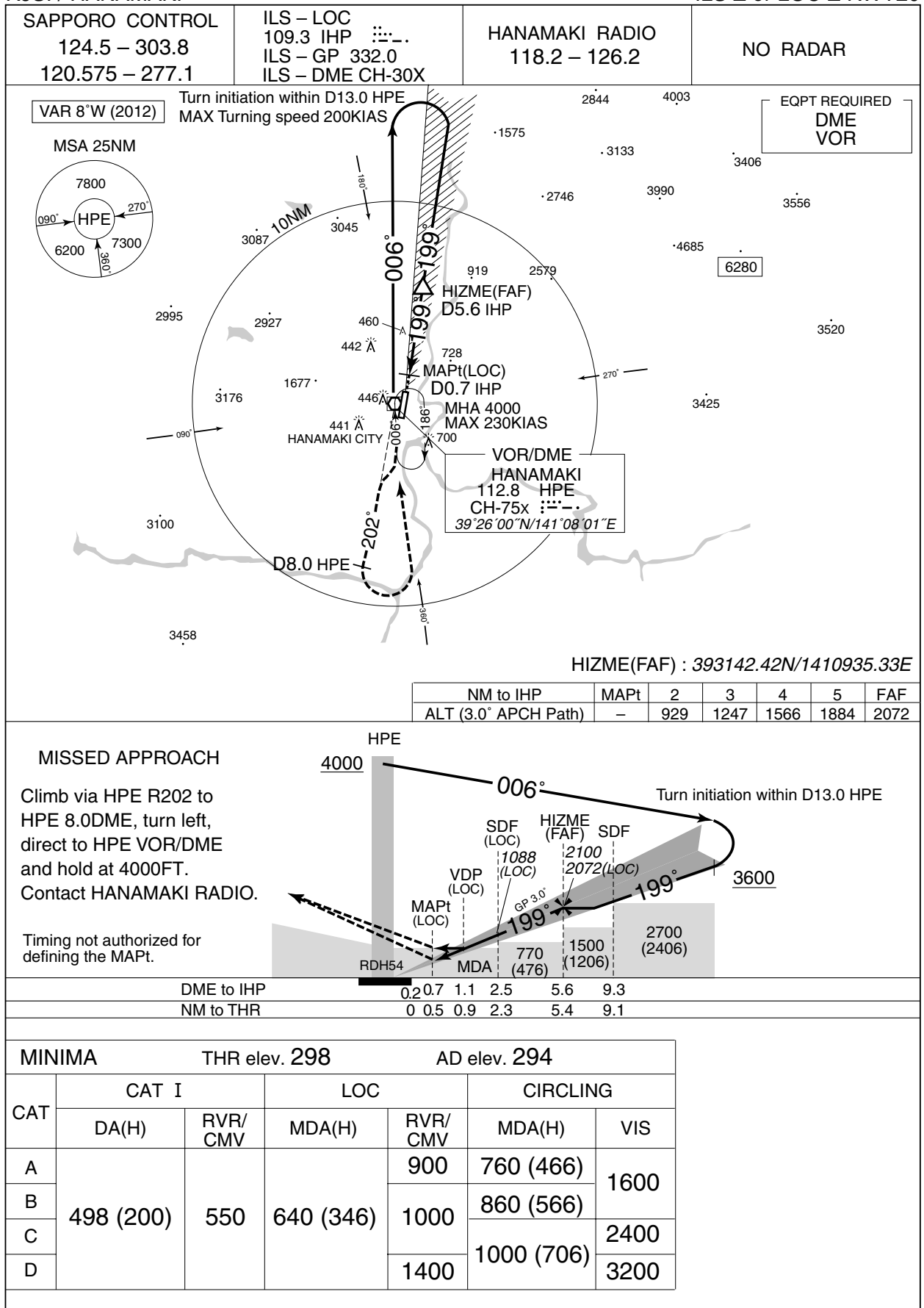


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INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

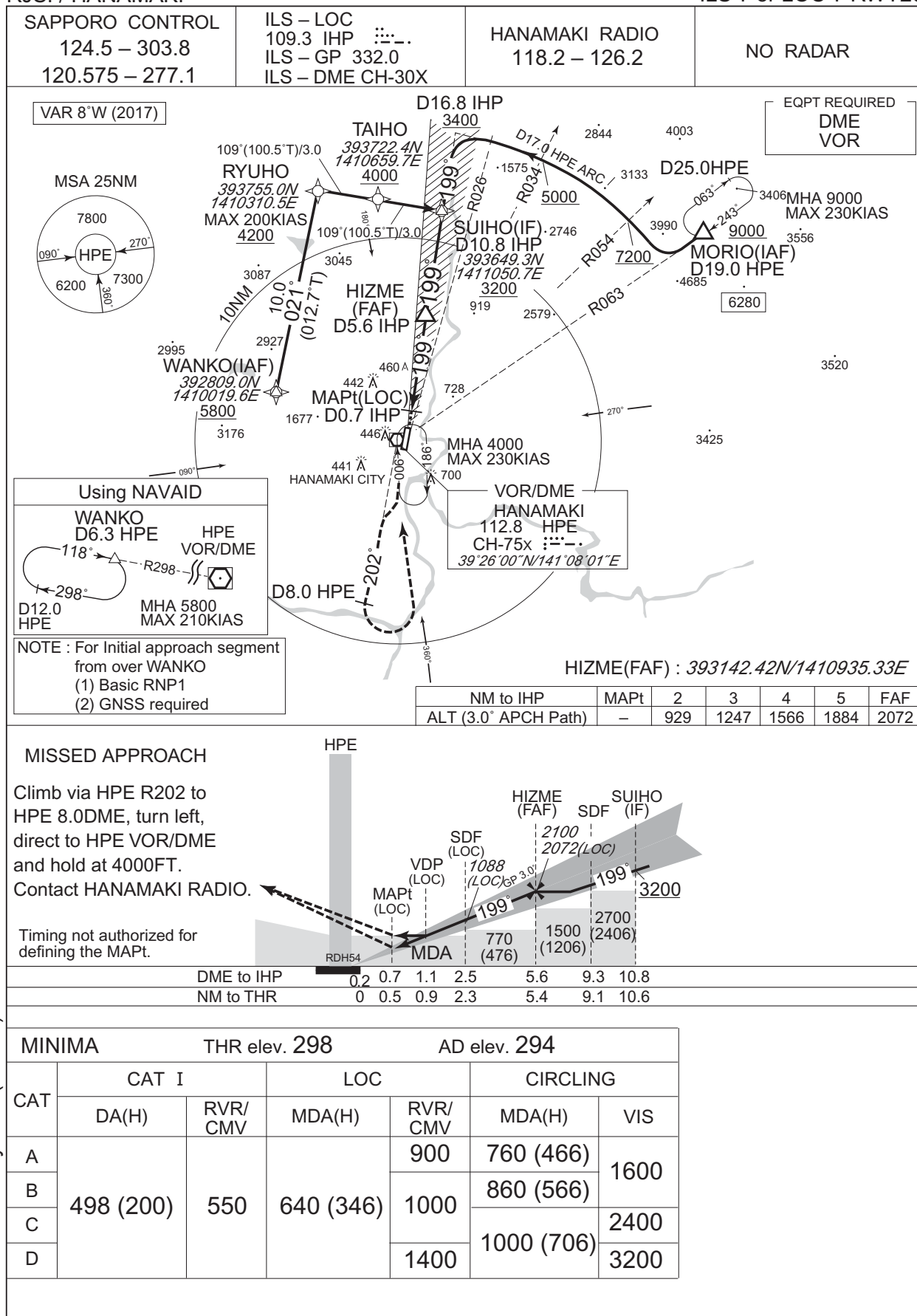
ILS Z or LOC Z RWY20



INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

ILS Y or LOC Y RWY20



CHANGE : FIX symbol (HLDG)

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

VOR RWY20



RJSI / HANAMAKI

SAPPORO CONTROL
124.5 – 303.8
120.575 – 277.1

HANAMAKI VOR/DME
112.8 HPE
CH-75X
39°26'00"N/141°08'01"E

HANAMAKI RADIO
118.2 – 126.2

NO RADAR

VAR 8°W (2012)

MSA 25NM

EQPT REQUIRED
DME
6280

SHIHO(FAF) : 392005.53N/1410711.95E
3458

MAPt 446
D0.9 HPE
441
HANAMAKI CITY

SHIHO (FAF)
D5.9 HPE

MHA4500
MAX 230KIAS

Turn initiation within D11.0 HPE
MAX Turning speed 200KIAS

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

Turn initiation within D11.0 HPE

4500 HPE

178°

SHIHO (FAF)

1925

830

SDF VDP

MAPt

2300

014°

014°

1500 (1217)

750 (467)

MDA

MISSED APPROACH

Climb via HPE R014 to HPE
6.0DME, turn right, proceed to HPE
VOR/DME and hold at 4500FT.
Contact HANAMAKI RADIO.

Timing not authorized for defining the MAPt.

	5.9	2.5	1.9	0.9	DME to HPE
	5.0	1.6	1.0	0	NM to THR

Missed APCH climb gradient MNM 3.6%

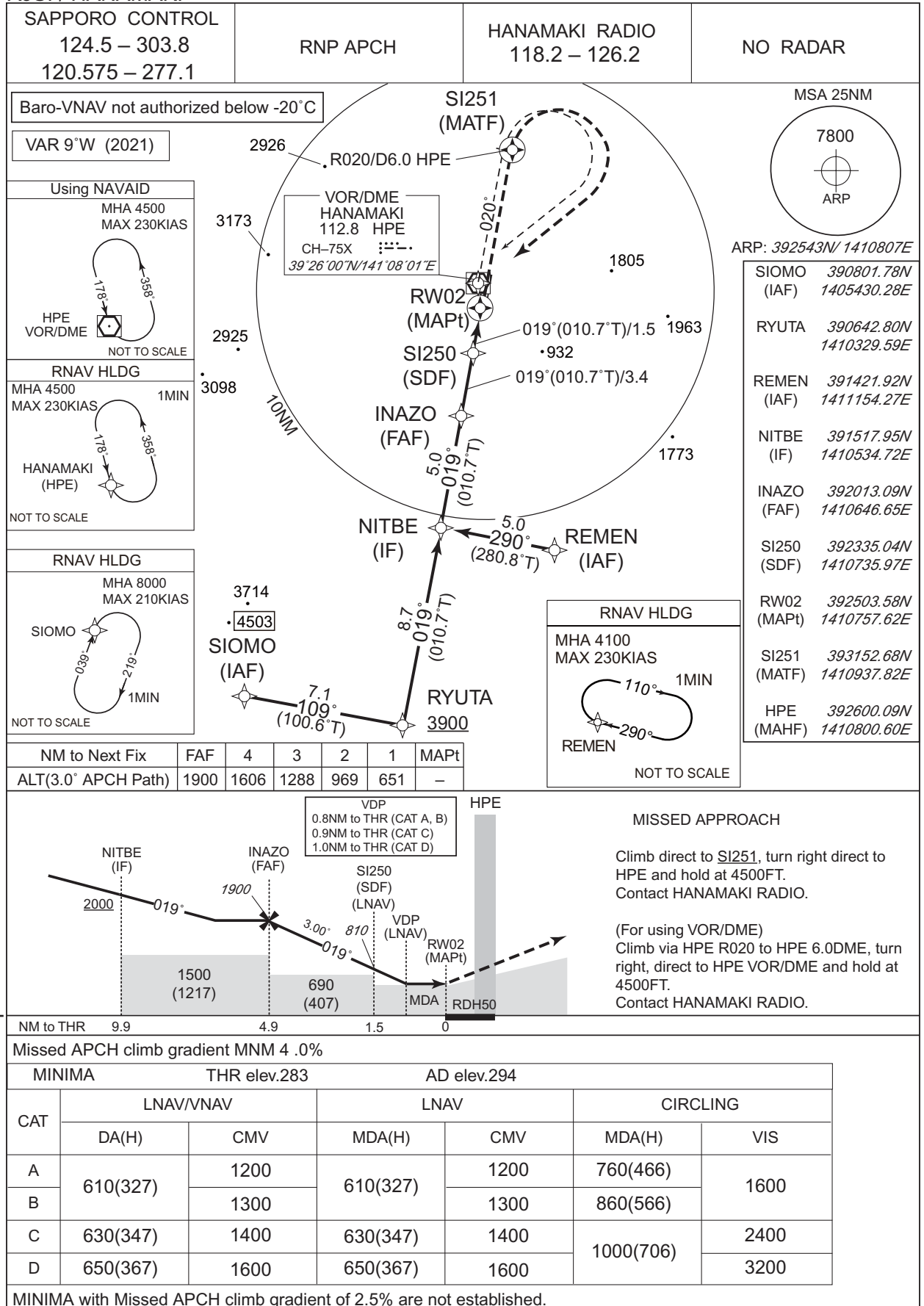
MINIMA		THR elev. 283	AD elev. 294	
CAT	MDA(H)	CMV	MDA(H)	VIS
A	640 (357)	1200	760 (466)	1600
B		1300	860 (566)	
C		1400	1000 (706)	
D	650 (367)	1600		3200

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

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

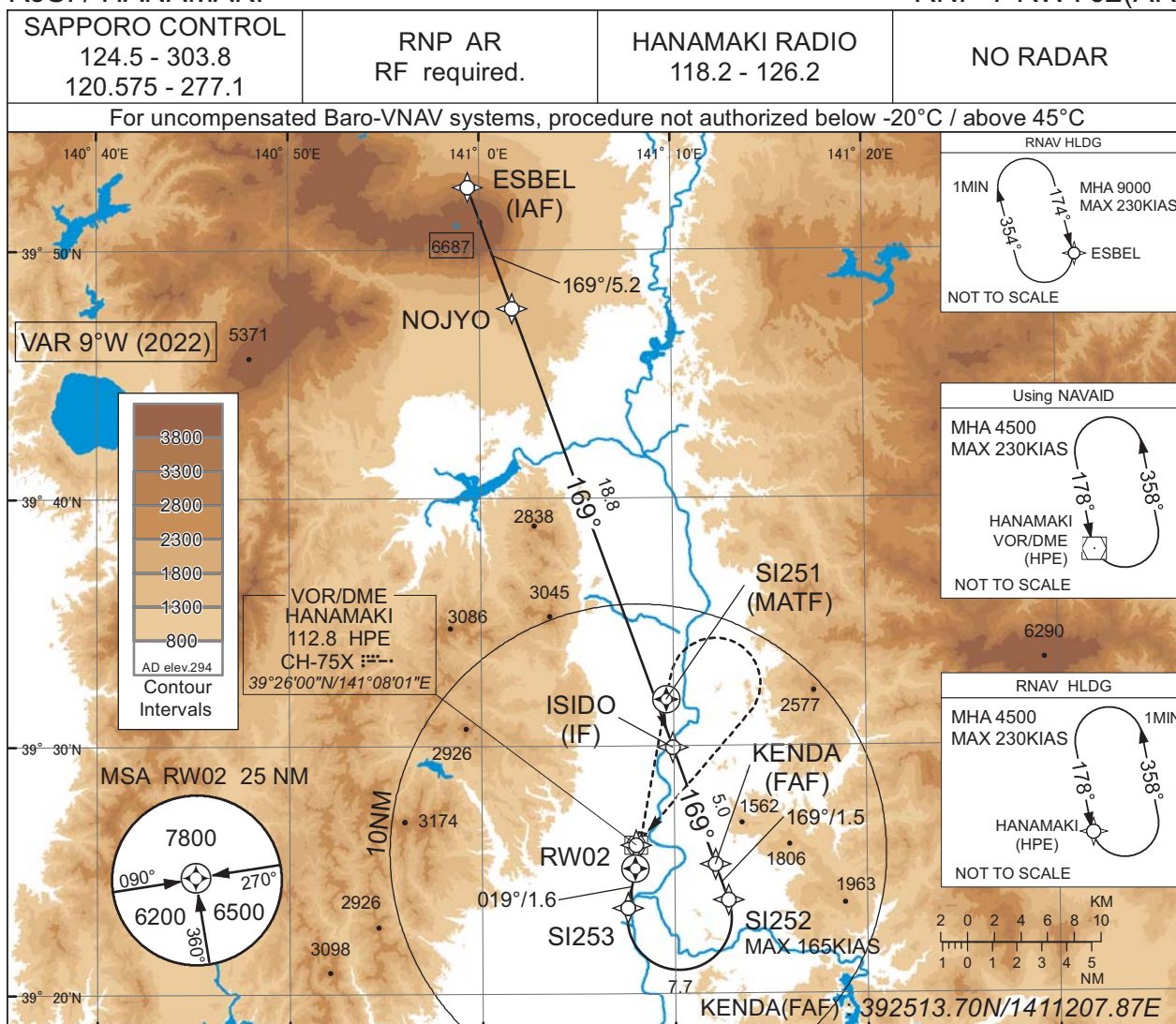
RNP Z RWY02



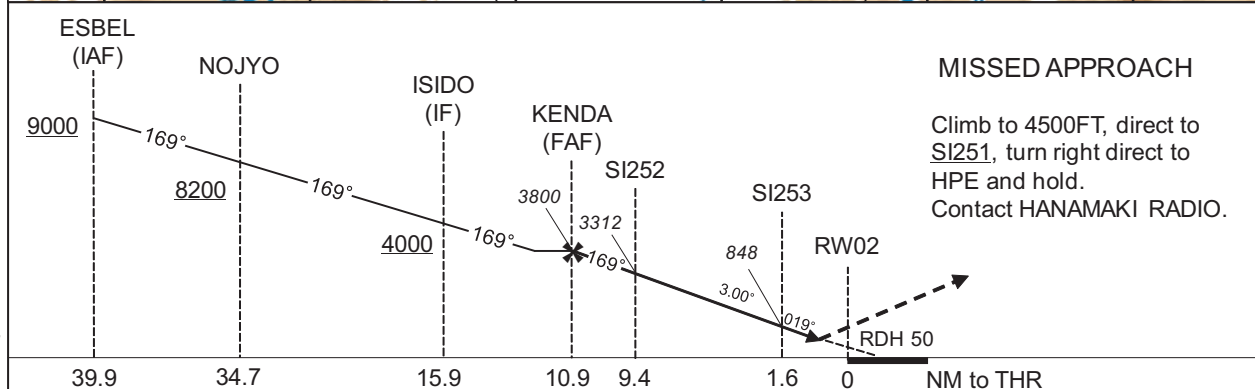
INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNP Y RWY02(AR)



CHANGE : PROC renamed. Requirement for RNP.



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

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNP Y RWY02(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	ESBEL	-	-	-8.8	-	-	+9000	-	-	-
002	TF	NOJYO	-	169 (160.2)	-8.8	5.2	-	+8200	-	-	1.0
003	TF	ISIDO	-	169 (160.2)	-8.8	18.8	-	+4000	-	-	1.0
004	TF	KENDA	-	169 (160.3)	-8.8	5.0	-	3800	-	-	1.0
005	TF	SI252	-	169 (160.4)	-8.8	1.5	-	3312	-165	-3.00	0.3
006	RF Center: SIRF1 r=2.10NM	SI253	-	-	-8.8	7.7	R	848	-	-3.00	0.3
007	TF	RW02	Y	019 (010.7)	-8.8	1.6	-	333	-	-3.00/50	0.3
008	DF	SI251	Y	-	-8.8	-	-	-	-	-	1.0
009	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	ESBEL	174 (165.3)	-8.8	1.0 (-14000)	R	9000	FL140	-230 (-14000)	1.0
Hold	HPE	178 (169.7)	-8.8	1.0 (-14000)	L	4500	FL140	-230 (-14000)	1.0

Waypoint Coordinates

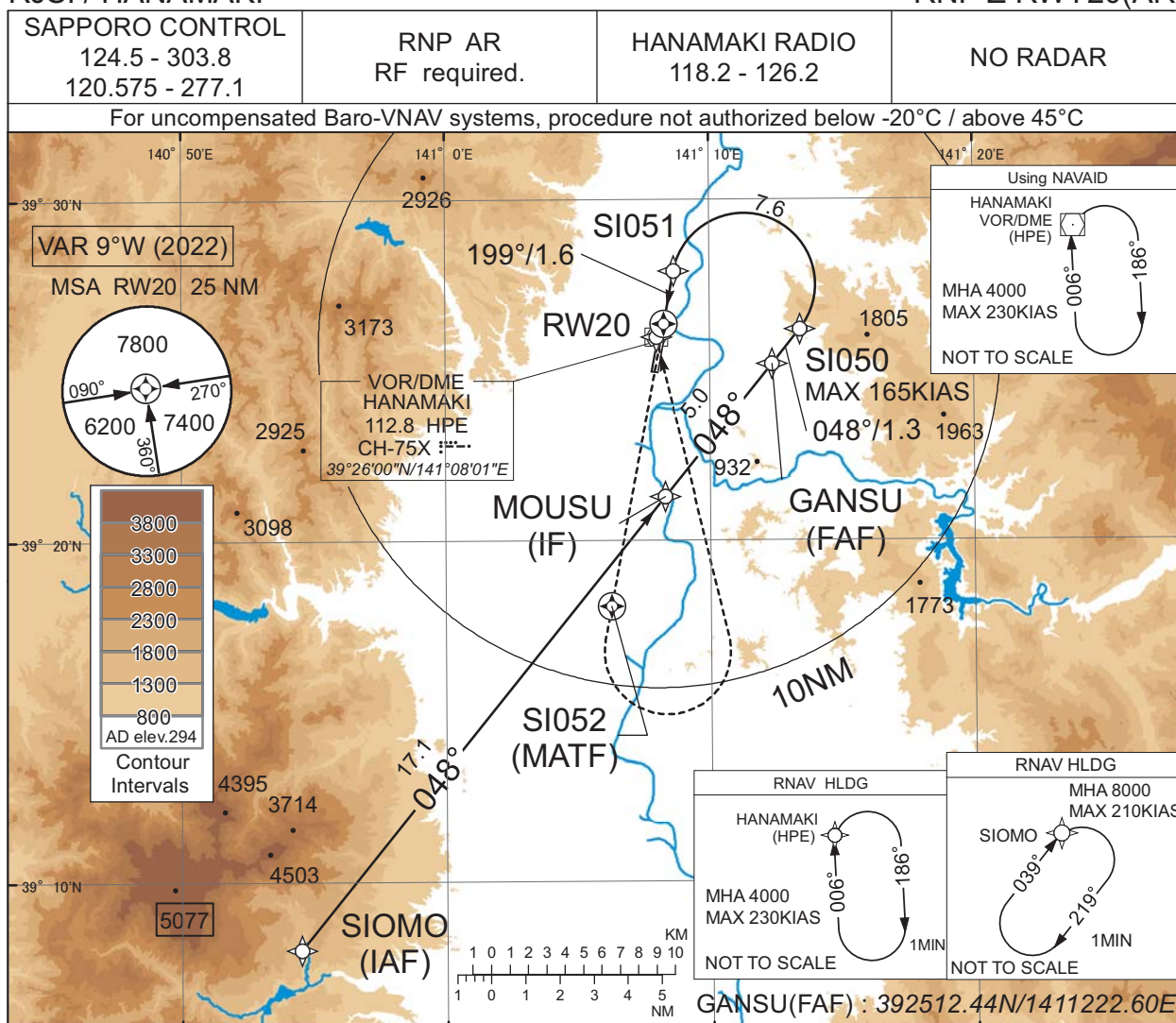
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ESBEL	395233.23N / 1405924.90E	SIRF1	392304.37N / 1411014.42E
NOJYO	394739.56N / 1410142.35E		
ISIDO	392956.45N / 1410957.05E		
KENDA	392513.70N / 1411207.87E		
SI252	392347.07N / 1411247.89E		
SI253	392327.97N / 1410734.24E		
RW02	392503.58N / 1410757.62E		
SI251	393152.68N / 1410937.82E		
HPE	392600.09N / 1410800.60E		

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

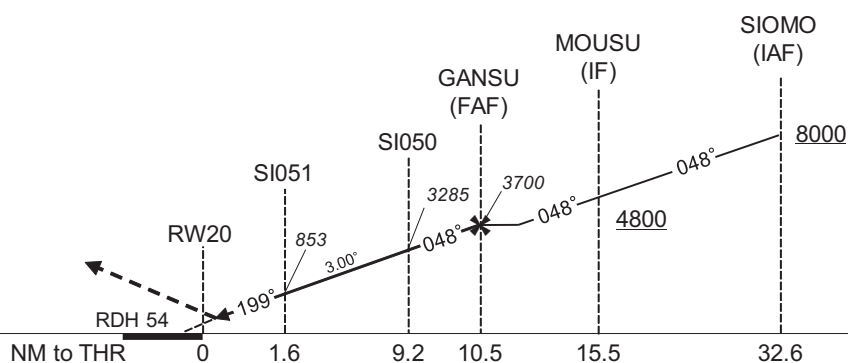
RJSI / HANAMAKI

RNP Z RWY20(AR)



MISSED APPROACH

Climb to 4000FT, direct to
SI052, turn left direct to HPE
and hold.
Contact HANAMAKI RADIO.



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 : PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNP Z RWY20(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	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		

CHANGE : PROC renamed.

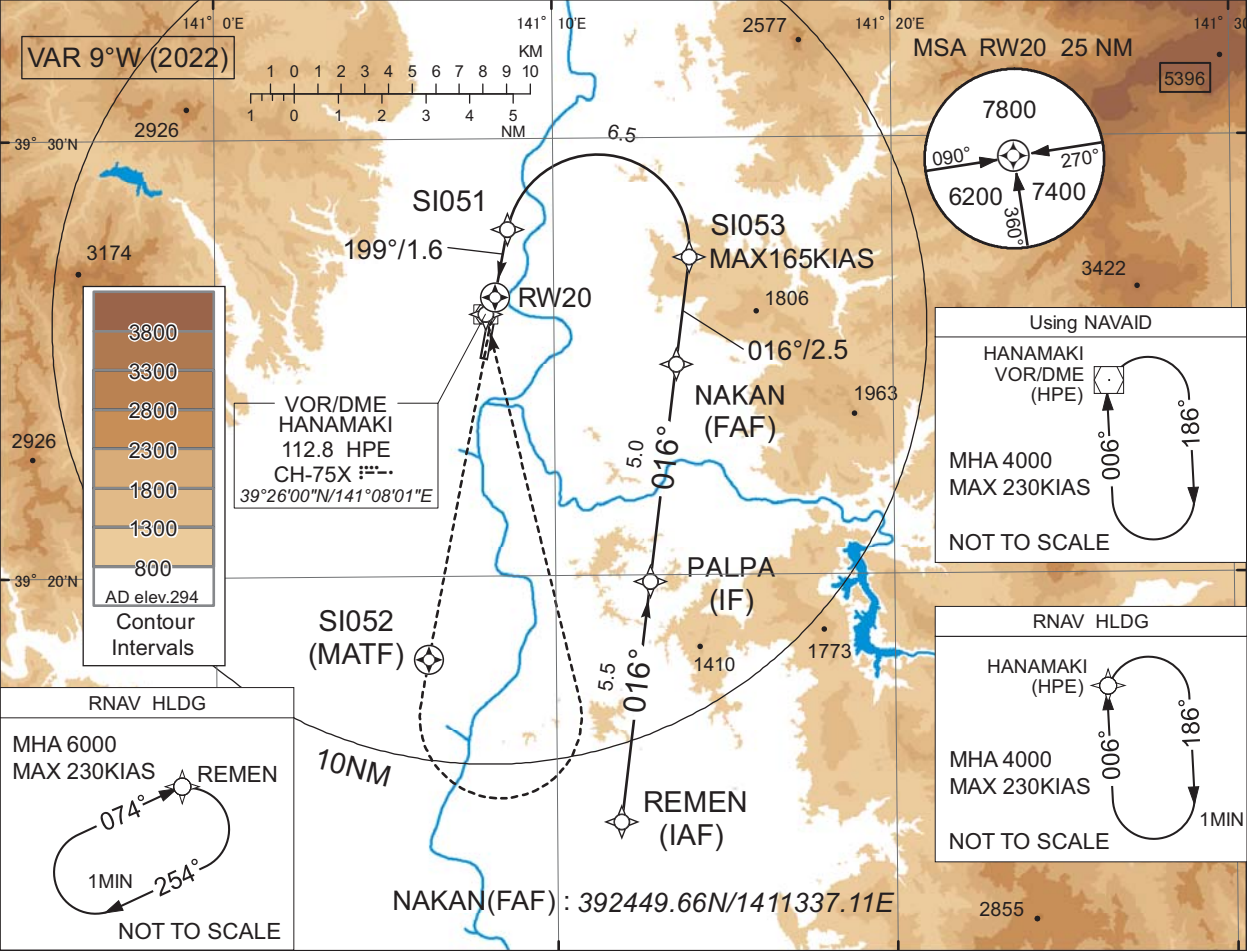
INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNP Y RWY20(AR)

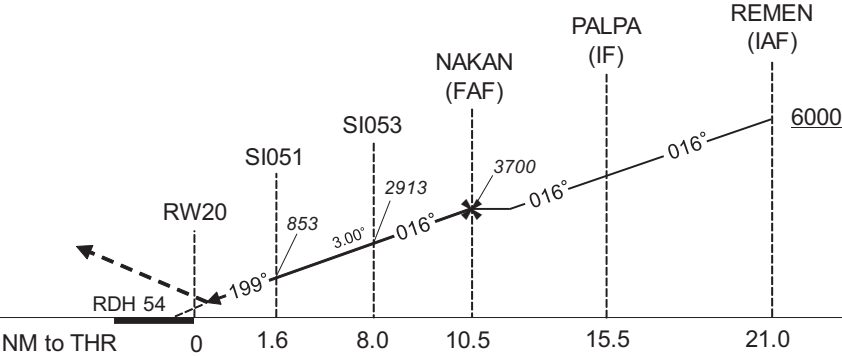
SAPPORO CONTROL 124.5 - 303.8 120.575 - 277.1	RNP AR RF required.	HANAMAKI RADIO 118.2 - 126.2	NO RADAR
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For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C



MISSED APPROACH

Climb to 4000FT, direct to SI052, turn left direct to HPE and hold.
Contact HANAMAKI RADIO.



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 : PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNP Y RWY20(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	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		

CHANGE : PROC renamed.

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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



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Minimum Vectoring Altitude CHART

