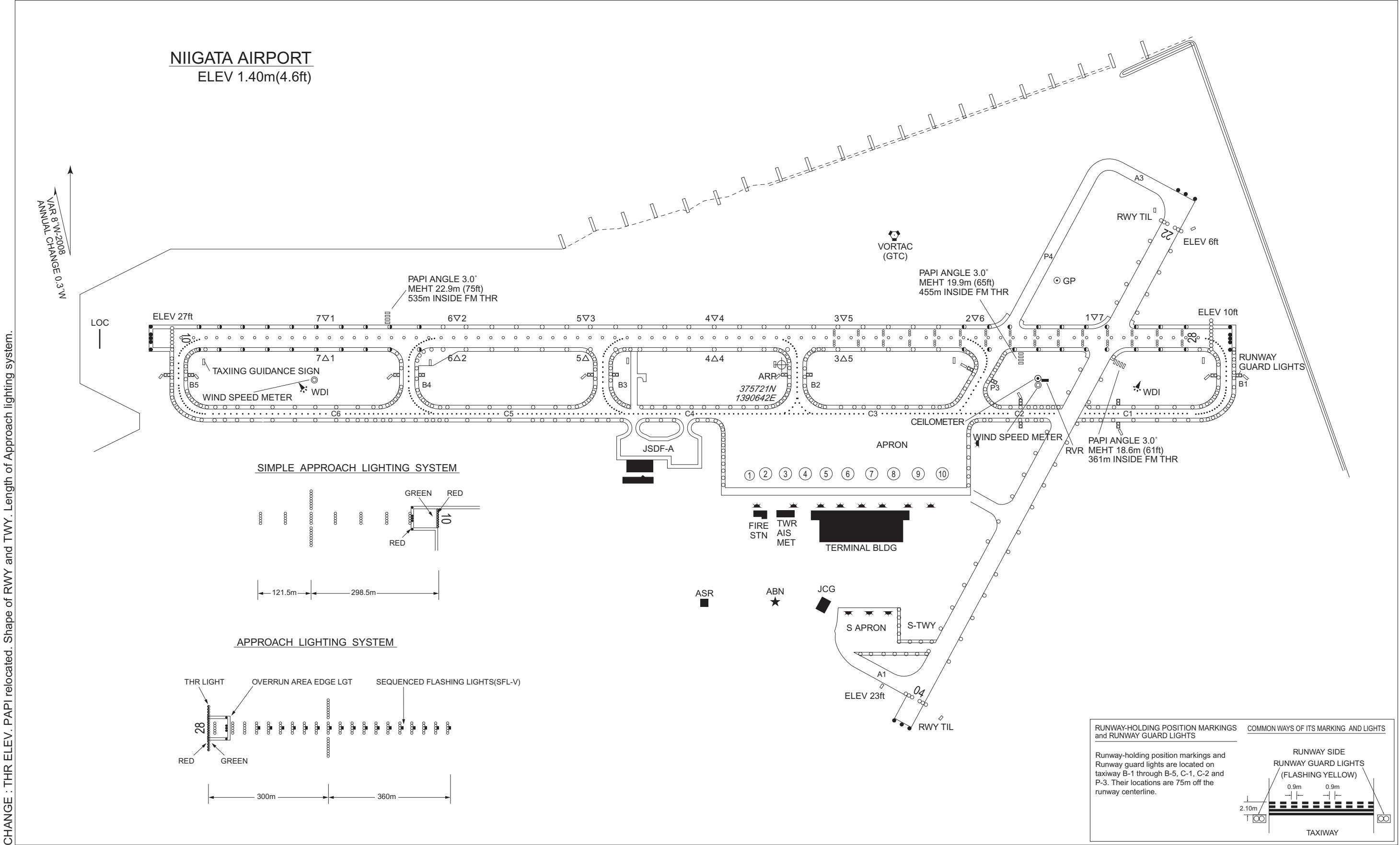


AERODROME CHART



RJSN / NIIGATA

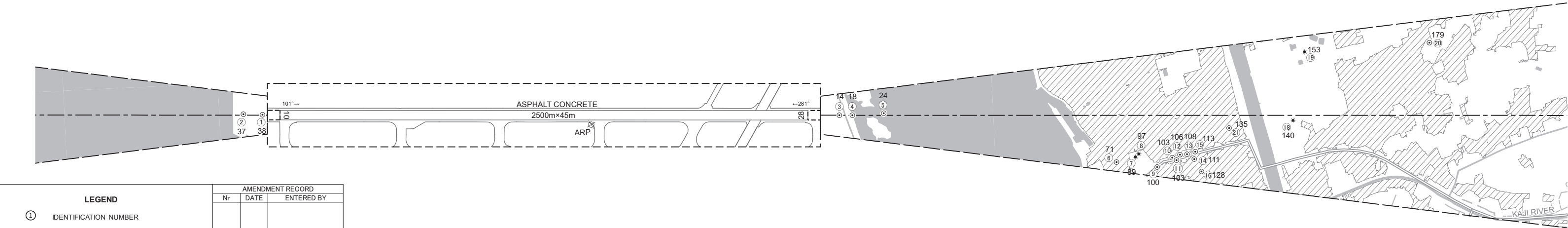
AD CHART



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

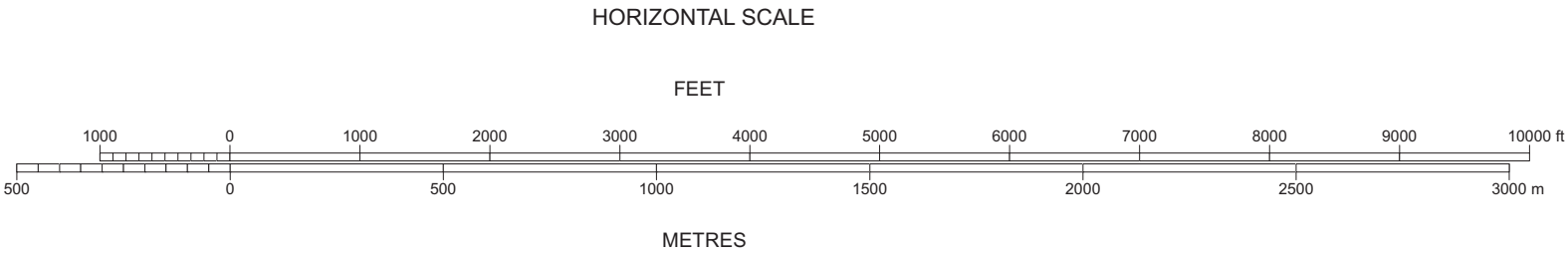
MAGNETIC VARIATION 9°W - DEC 2022



LEGEND

- ① IDENTIFICATION NUMBER
- ⊙ POLE, TOWER, SPIRE, ANTENNA, ETC
- ✱ TREE
- ⚶ RAILROAD
- △ TRIANGULATION POINT
- ★ AERONAUTICAL GROUND LIGHT
- BUILDING OR LARGE STRUCTURE
- 〰 CONTOURS(ft)
- ▨ LEVEE
- 〰 RIVER

AMENDMENT RECORD		
Nr	DATE	ENTERED BY



測量法に基づく国土地理院長承認(使用) R 4JHs 286 国土数値情報 (緊急輸送道路)

CHANGE: Update

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE B



CHANGE:Update

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

SID

OKESA SIX DEPARTURE

RWY 04 : Turn left HDG 244°...
 RWY 10 : Climb RWY HDG to 500FT, turn left HDG 244°...
 RWY 22 : Climb RWY HDG to 800FT, turn left...
 RWY 28 : Climb RWY HDG to 500FT, turn right...
 ...to intercept and proceed via GTC R289 to OKESA.

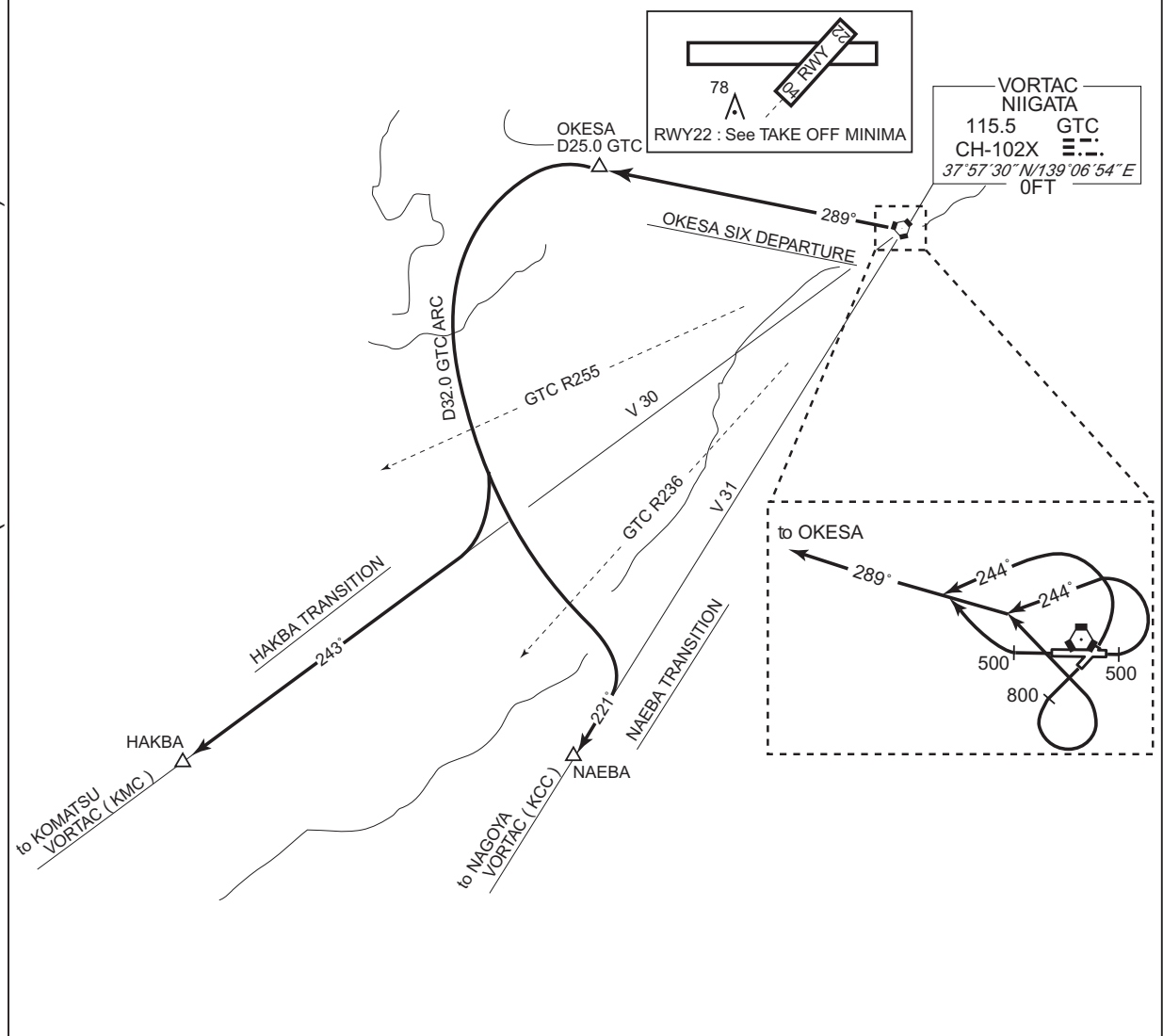
NAEBA TRANSITION

From over OKESA, turn left to intercept and proceed via GTC 32.0DME counterclockwise ARC, turn right to intercept and proceed via GTC R221 to NAEBA.

HAKBA TRANSITION

From over OKESA, turn left to intercept and proceed via GTC 32.0DME counterclockwise ARC, turn right to intercept and proceed via GTC R243 to HAKBA.

CHANGE : PROC renamed. ALT restriction(OKESA SIX DEPARTURE).



STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

SID

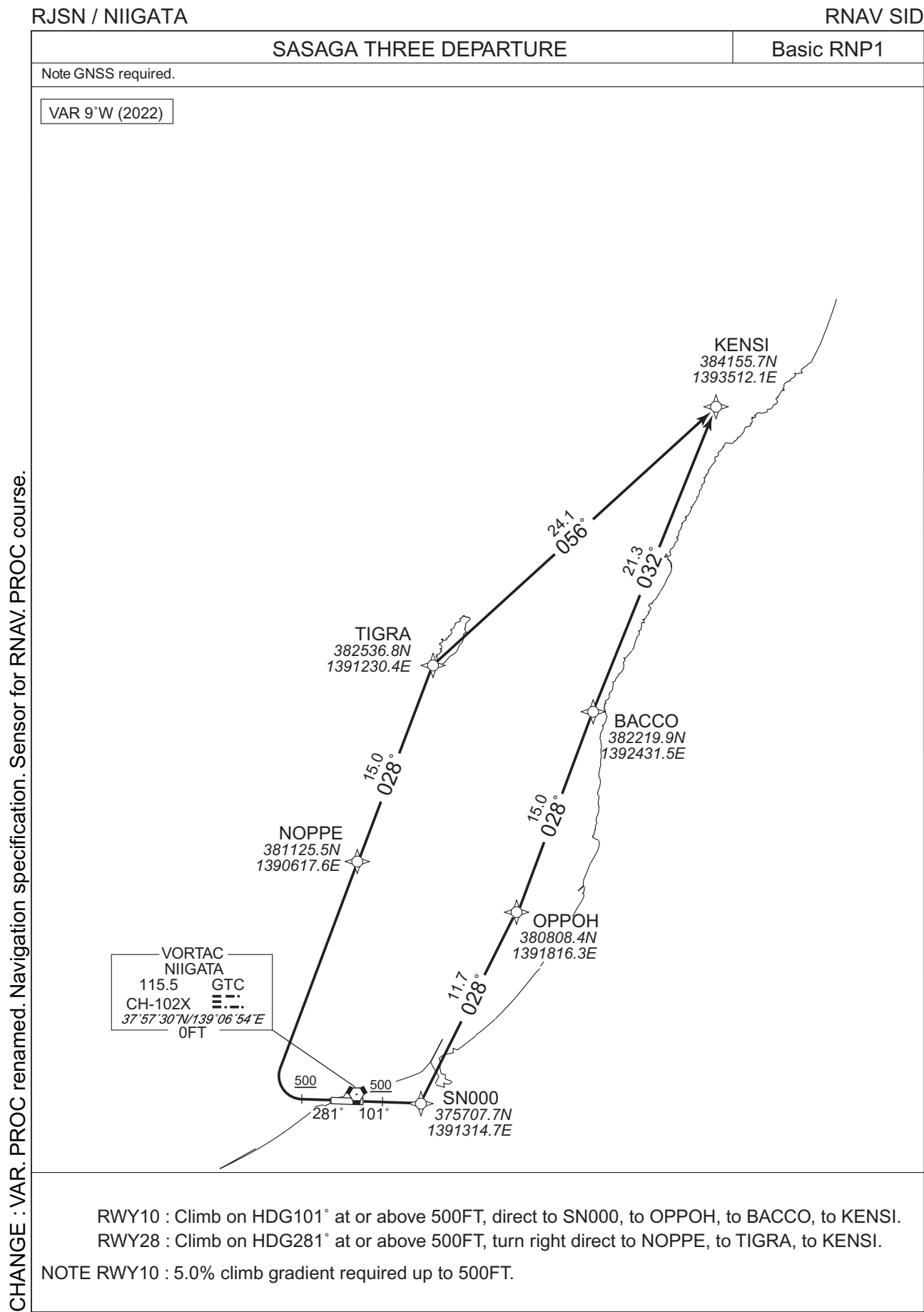
NIIGATA REVERSAL SEVEN DEPARTURE

- RWY 04 : Turn left...
 RWY 10 : Climb RWY HDG to 500FT, turn left...
 RWY 22 : Climb RWY HDG to 800FT, turn left...
 RWY 28 : Climb RWY HDG to 700FT, turn right...
 ...direct to GTC VORTAC.
 Cross GTC VORTAC at or above 3000FT.



CHANGE : PROC renamed. ALT restriction.

STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID

SASAGA THREE DEPARTURE

RWY10

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	—	—	101 (092.7)	-8.6	—	—	+500	—	—	Basic RNP1
002	DF	SN000	—	—	-8.6	—	—	—	—	—	Basic RNP1
003	TF	OPPOH	—	028 (019.7)	-8.6	11.7	—	—	—	—	Basic RNP1
004	TF	BACCO	—	028 (019.1)	-8.6	15.0	—	—	—	—	Basic RNP1
005	TF	KENSI	—	032 (023.0)	-8.6	21.3	—	—	—	—	Basic RNP1

RWY28

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	—	—	281 (272.7)	-8.6	—	—	+500	—	—	Basic RNP1
002	DF	NOPPE	—	—	-8.6	—	R	—	—	—	Basic RNP1
003	TF	TIGRA	—	028 (018.9)	-8.6	15.0	—	—	—	—	Basic RNP1
004	TF	KENSI	—	056 (047.3)	-8.6	24.1	—	—	—	—	Basic RNP1

CHANGE : VAR. PROC renamed. Navigation specification. PROC course.

RJSN / NIIGATA RNAV SID and TRANSITION

Basic RNP1

VAR 9°W (2022)



RWY10 : Climb on HDG101° at or above 500FT, direct to SN000, to SN001, to SN002, to MOKBA.

RWY28 : Climb on HDG281° at or above 500FT, direct to SN800, to MOKBA.

NOTE RWY10 : 5.0% climb gradient required up to 500FT.

KARIWA TRANSITION

From MOKBA, to NAEBA at or above FL200.

TERAD TRANSITION

From MOKBA, to TERAD.

VIKET TRANSITION

From MOKBA, to TAMBO at or above 9000FT, to VIKET at or above FL140.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID and TRANSITION

MOKBA TWO DEPARTURE

RWY10

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	—	—	101 (092.7)	-8.6	—	—	+500	—	—	Basic RNP1
002	DF	SN000	—	—	-8.6	—	—	—	—	—	Basic RNP1
003	TF	SN001	—	011 (002.7)	-8.6	5.0	—	—	—	—	Basic RNP1
004	TF	SN002	—	281 (272.8)	-8.6	5.9	—	—	—	—	Basic RNP1
005	TF	MOKBA	—	233 (224.9)	-8.6	14.9	—	—	—	—	Basic RNP1

RWY28

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	—	—	281 (272.7)	-8.6	—	—	+500	—	—	Basic RNP1
002	DF	SN800	—	—	-8.6	—	—	—	—	—	Basic RNP1
003	TF	MOKBA	—	214 (205.6)	-8.6	6.5	—	—	—	—	Basic RNP1

KARIWA TRANSITION

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	MOKBA	—	—	-8.6	—	—	—	—	—	Basic RNP1
002	TF	NAEBA	—	213 (204.2)	-8.6	40.1	—	+FL200	—	—	Basic RNP1

TERAD TRANSITION

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	MOKBA	—	—	-8.6	—	—	—	—	—	Basic RNP1
002	TF	TERAD	—	239 (230.5)	-8.6	24.6	—	—	—	—	Basic RNP1

VIKET TRANSITION

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	MOKBA	—	—	-8.6	—	—	—	—	—	Basic RNP1
002	TF	TAMBO	—	124 (115.8)	-8.6	10.0	—	+9000	—	—	Basic RNP1
003	TF	VIKET	—	111 (102.7)	-8.6	24.4	—	+FL140	—	—	Basic RNP1

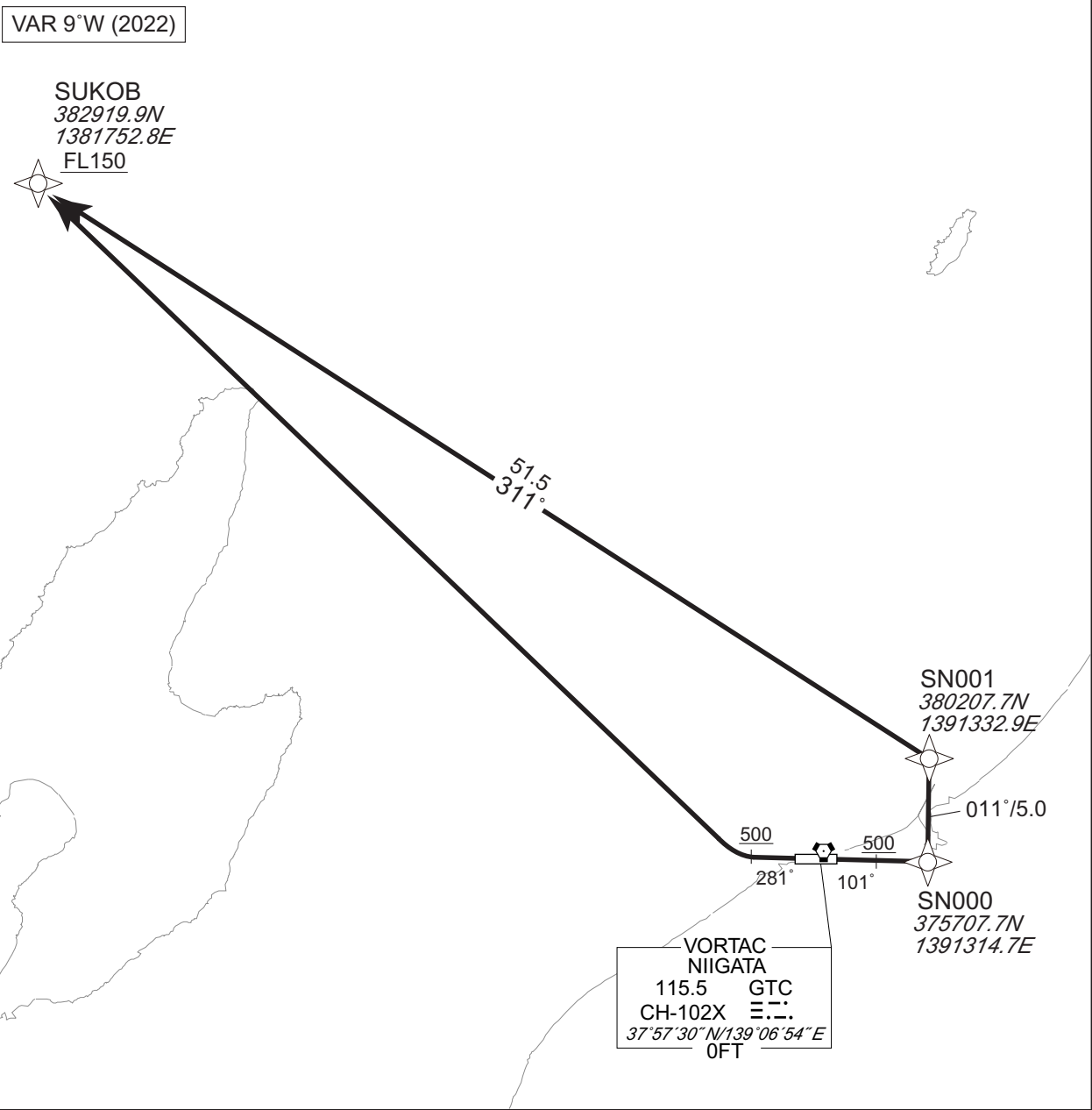
CHANGE : VAR. PROC renamed. Navigation specification. Course FM MOKBA to NAEBA. ALT restriction at TAMBO established.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID

SUKOB ONE DEPARTURE			RNAV 1
NOTE 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2) RADAR service required.	Critical DME	RWY10 : GTC : 10.0NM to SUKOB - SUKOB NTE : 10.0NM to SUKOB - SUKOB RWY28 : GTC : 15.0NM to SUKOB - SUKOB NTE : 15.0NM to SUKOB - SUKOB	
	DME GAP	RWY10 : DER - 10.0NM to SUKOB RWY28 : DER - 15.0NM to SUKOB	
	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1.	



CHANGE : New PROC.

RWY10 : Climb on HDG101° at or above 500FT, direct to SN000, to SN001, to SUKOB at or above FL150.
RWY28 : Climb on HDG281° at or above 500FT, turn right direct to SUKOB at or above FL150.
Note RWY10 : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN/ NIIGATA

RNAV SID

SUKOB ONE DEPARTURE

RWY10

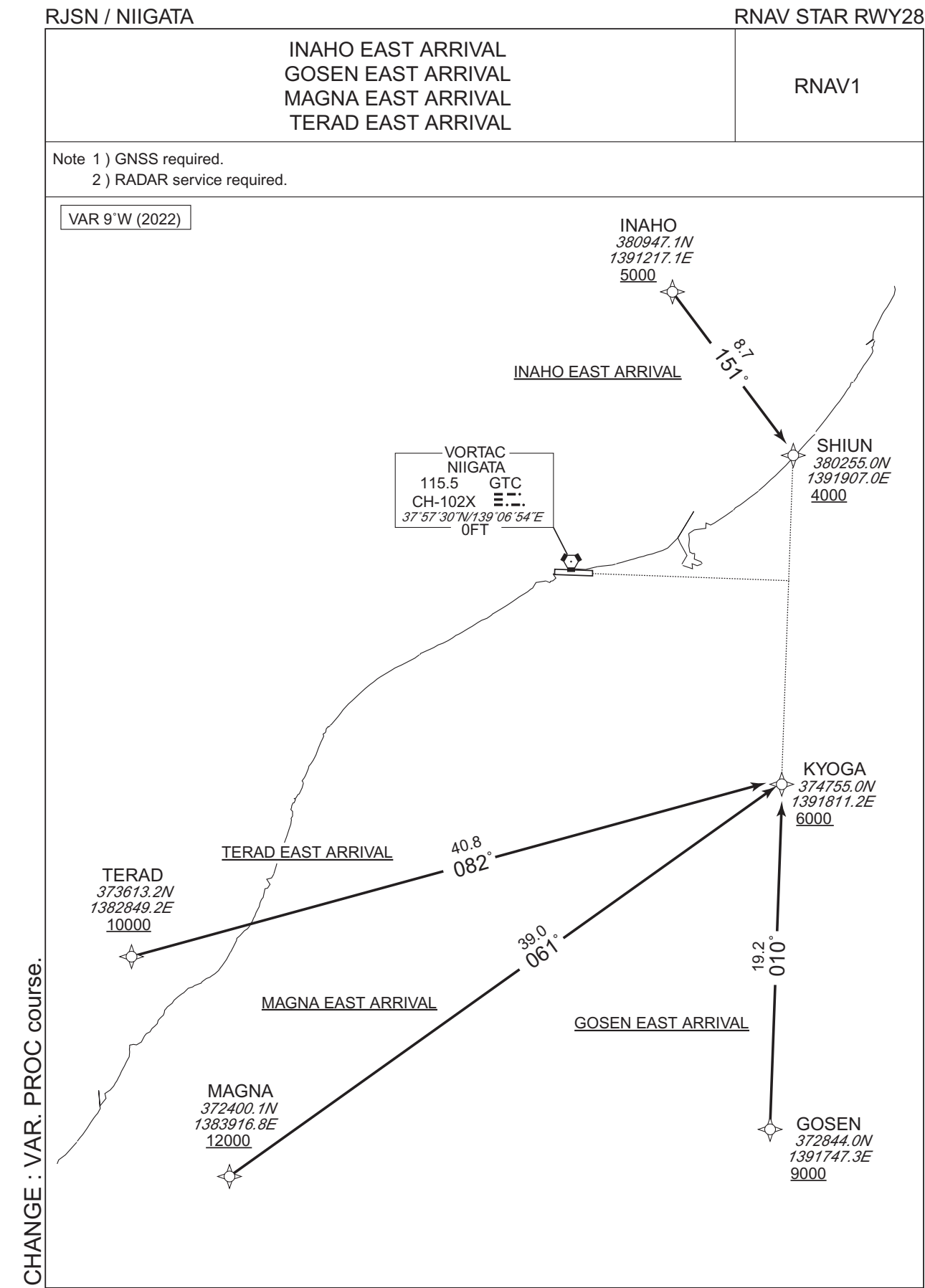
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	101 (092.7)	-8.6	—	—	+500	—	—	RNAV1
002	DF	SN000	—	—	-8.6	—	—	—	—	—	RNAV1
003	TF	SN001	—	011 (002.7)	-8.6	5.0	—	—	—	—	RNAV1
004	TF	SUKOB	—	311 (302.2)	-8.6	51.5	—	+FL150	—	—	RNAV1

RWY28

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	—	—	281 (272.7)	-8.6	—	—	+500	—	—	RNAV1
002	DF	SUKOB	—	—	-8.6	—	R	+FL150	—	—	RNAV1

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA

RNAV STAR RWY28

INAHO EAST ARRIVAL

From INAHO at or above 5000FT, to SHIUN at or above 4000FT.

Critical DME	—
DME GAP	INAHO - SHIUN
Inappropriate Nav aids	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	INAHO	—	—	-8.6	—	—	+5000	—	—	RNAV1
002	TF	SHIUN	—	151 (141.9)	-8.6	8.7	—	+4000	—	—	RNAV1

GOSEN EAST ARRIVAL

From GOSEN at or above 9000FT, to KYOGA at or above 6000FT.

Critical DME	—
DME GAP	GOSEN - KYOGA
Inappropriate Nav aids	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	GOSEN	—	—	-8.6	—	—	+9000	—	—	RNAV1
002	TF	KYOGA	—	010 (000.9)	-8.6	19.2	—	+6000	—	—	RNAV1

MAGNA EAST ARRIVAL

From MAGNA at or above 12000FT, to KYOGA at or above 6000FT.

Critical DME	GTC:MAGNA - 10.0NM to KYOGA NTE:MAGNA - 10.0NM to KYOGA
DME GAP	10.0NM to KYOGA - KYOGA
Inappropriate Nav aids	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	MAGNA	—	—	-8.6	—	—	+12000	—	—	RNAV1
002	TF	KYOGA	—	061 (052.0)	-8.6	39.0	—	+6000	—	—	RNAV1

TERAD EAST ARRIVAL

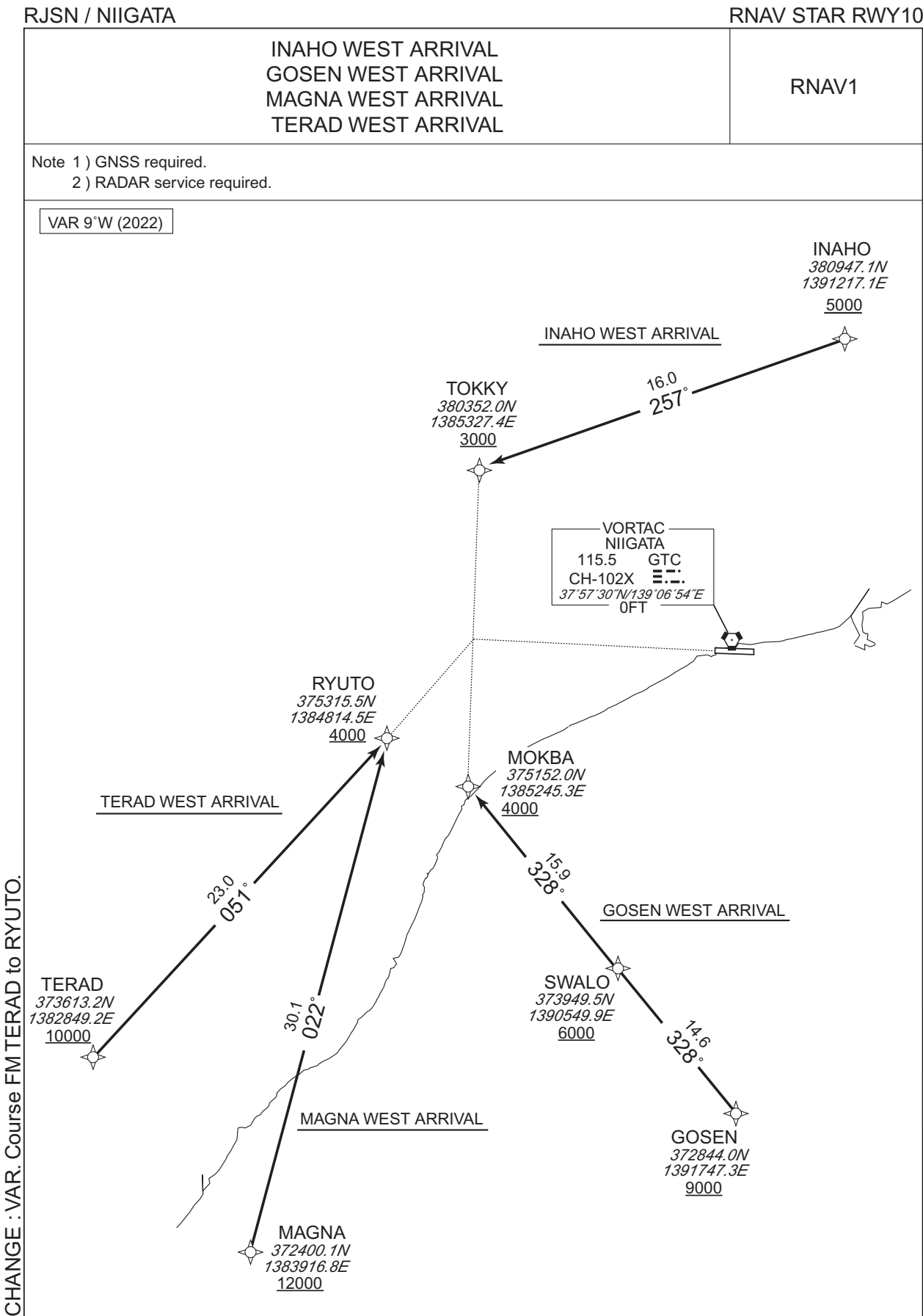
From TERAD at or above 10000FT, to KYOGA at or above 6000FT.

Critical DME	—
DME GAP	TERAD - KYOGA
Inappropriate Nav aids	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	TERAD	—	—	-8.6	—	—	+10000	—	—	RNAV1
002	TF	KYOGA	—	082 (073.1)	-8.6	40.8	—	+6000	—	—	RNAV1

CHANGE : VAR. PROC course.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA

RNAV STAR RWY10

INAHO WEST ARRIVAL

From INAHO at or above 5000FT, to TOKKY at or above 3000FT.

Critical DME	—
DME GAP	INAHO - TOKKY
Inappropriate Nav aids	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	INAHO	—	—	-8.6	—	—	+5000	—	—	RNAV1
002	TF	TOKKY	—	257 (248.3)	-8.6	16.0	—	+3000	—	—	RNAV1

GOSEN WEST ARRIVAL

From GOSEN at or above 9000FT, to SWALO at or above 6000FT, to MOKBA at or above 4000FT.

Critical DME	—
DME GAP	GOSEN - MOKBA
Inappropriate Nav aids	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	GOSEN	—	—	-8.6	—	—	+9000	—	—	RNAV1
002	TF	SWALO	—	328 (319.5)	-8.6	14.6	—	+6000	—	—	RNAV1
003	TF	MOKBA	—	328 (319.4)	-8.6	15.9	—	+4000	—	—	RNAV1

MAGNA WEST ARRIVAL

From MAGNA at or above 12000FT, to RYUTO at or above 4000FT.

Critical DME	GTC:MAGNA - 15.0NM to RYUTO NTE:MAGNA - 15.0NM to RYUTO
DME GAP	15.0NM to RYUTO - RYUTO
Inappropriate Nav aids	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	MAGNA	—	—	-8.6	—	—	+12000	—	—	RNAV1
002	TF	RYUTO	—	022 (013.6)	-8.6	30.1	—	+4000	—	—	RNAV1

TERAD WEST ARRIVAL

From TERAD at or above 10000FT, to RYUTO at or above 4000FT.

Critical DME	—
DME GAP	TERAD - RYUTO
Inappropriate Nav aids	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	TERAD	—	—	-8.6	—	—	+10000	—	—	RNAV1
002	TF	RYUTO	—	051 (041.9)	-8.6	23.0	—	+4000	—	—	RNAV1

CHANGE : VAR. PROC course FM TERAD to RYUTO.

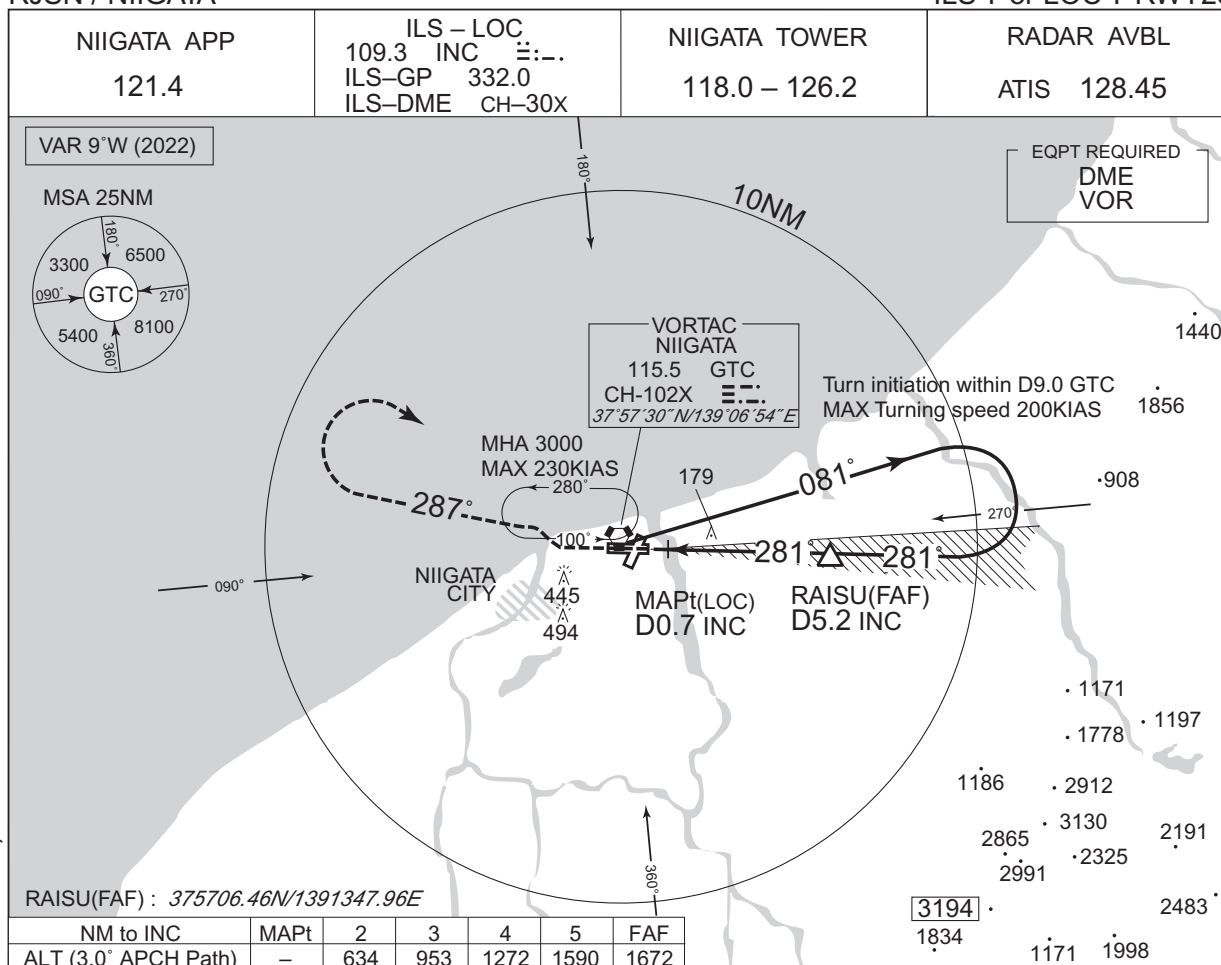
CHANGE : VAR. RAISU established. HAZAK abolished. ALT(3.0°APCH Path). PROC ALT(SDFRAISU). DME to INC. NM to THR. MINIMA(THR ELEV,DA(H) for CAT I ,MDA(H) for CIRCLING).



INSTRUMENT APPROACH CHART

RJSN / NIIGATA

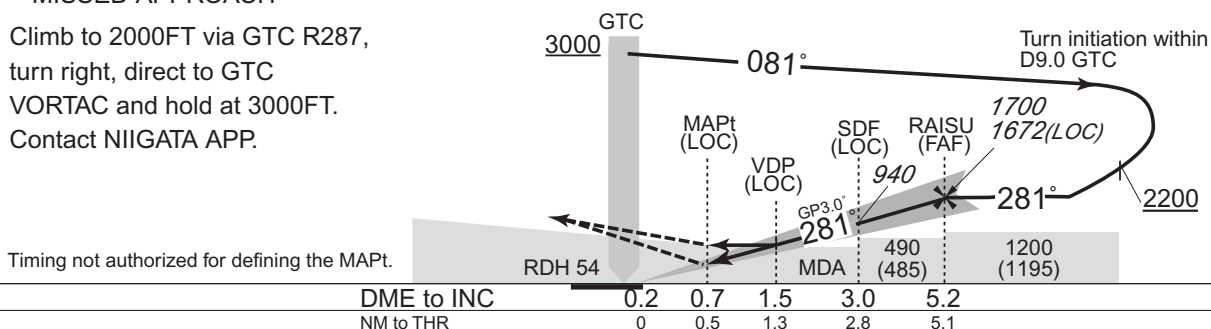
ILS Y or LOC Y RWY28



MISSED APPROACH

Climb to 2000FT via GTC R287,
turn right, direct to GTC
VORTAC and hold at 3000FT.
Contact NIIGATA APP.

Timing not authorized for defining the MAPt.



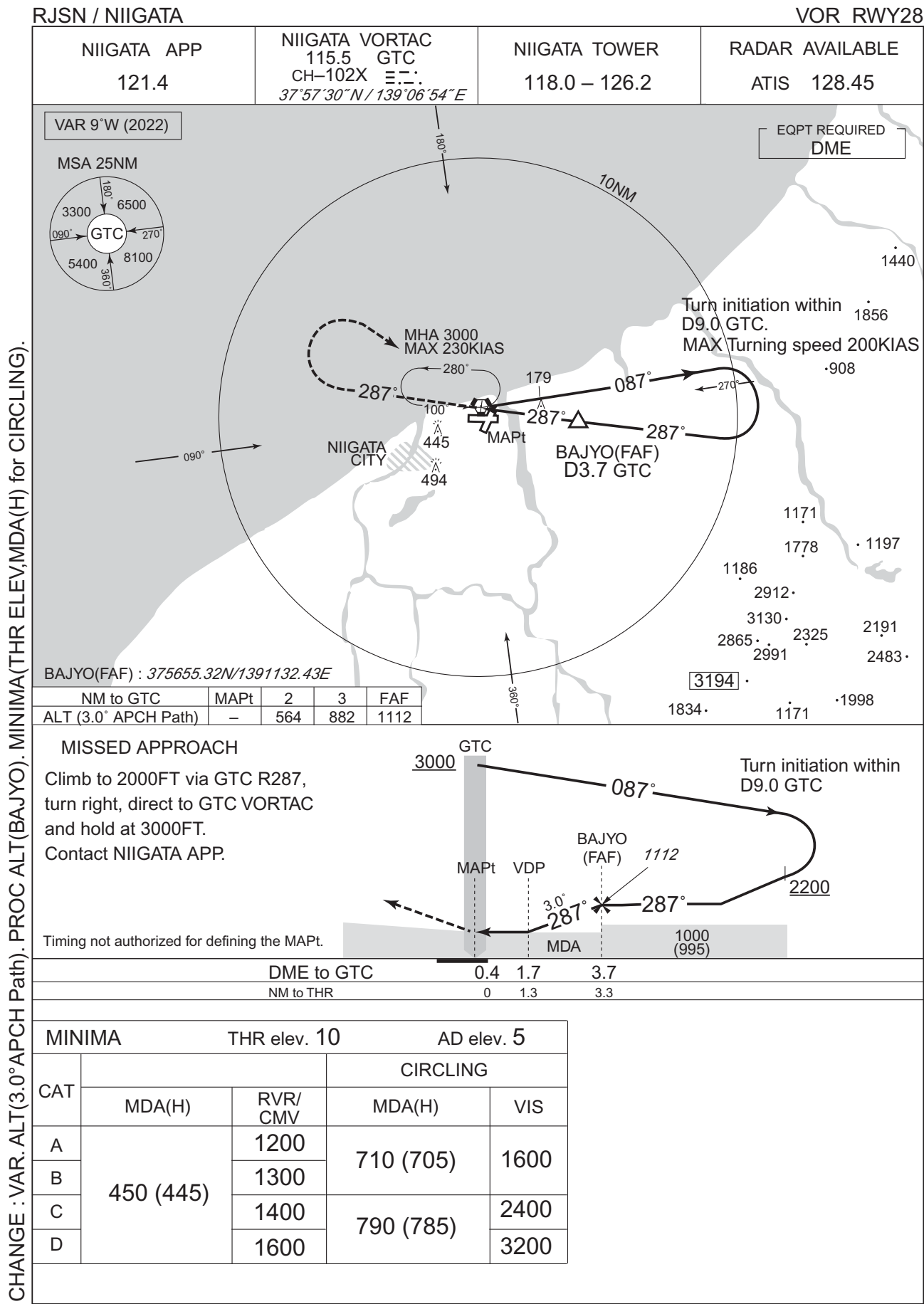
Missed APCH climb gradient MNM 3.0%

MINIMA		THR elev. 10		AD elev. 5		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	210 (200)	700	470 (465)	1400	710 (705)	1600
B				1500		
C				1600	790 (785)	2400
D				1800		3200

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

CHANGE : VAR. RAISU established. HAZAK abolished. ALT(3.0°APCH Path). PROC ALT(SDF,RAISU). DME to INC. NM to THR. MINIMA(THR ELEV,DA(H) for CAT I, MDA(H) for CIRCLING).

INSTRUMENT APPROACH CHART

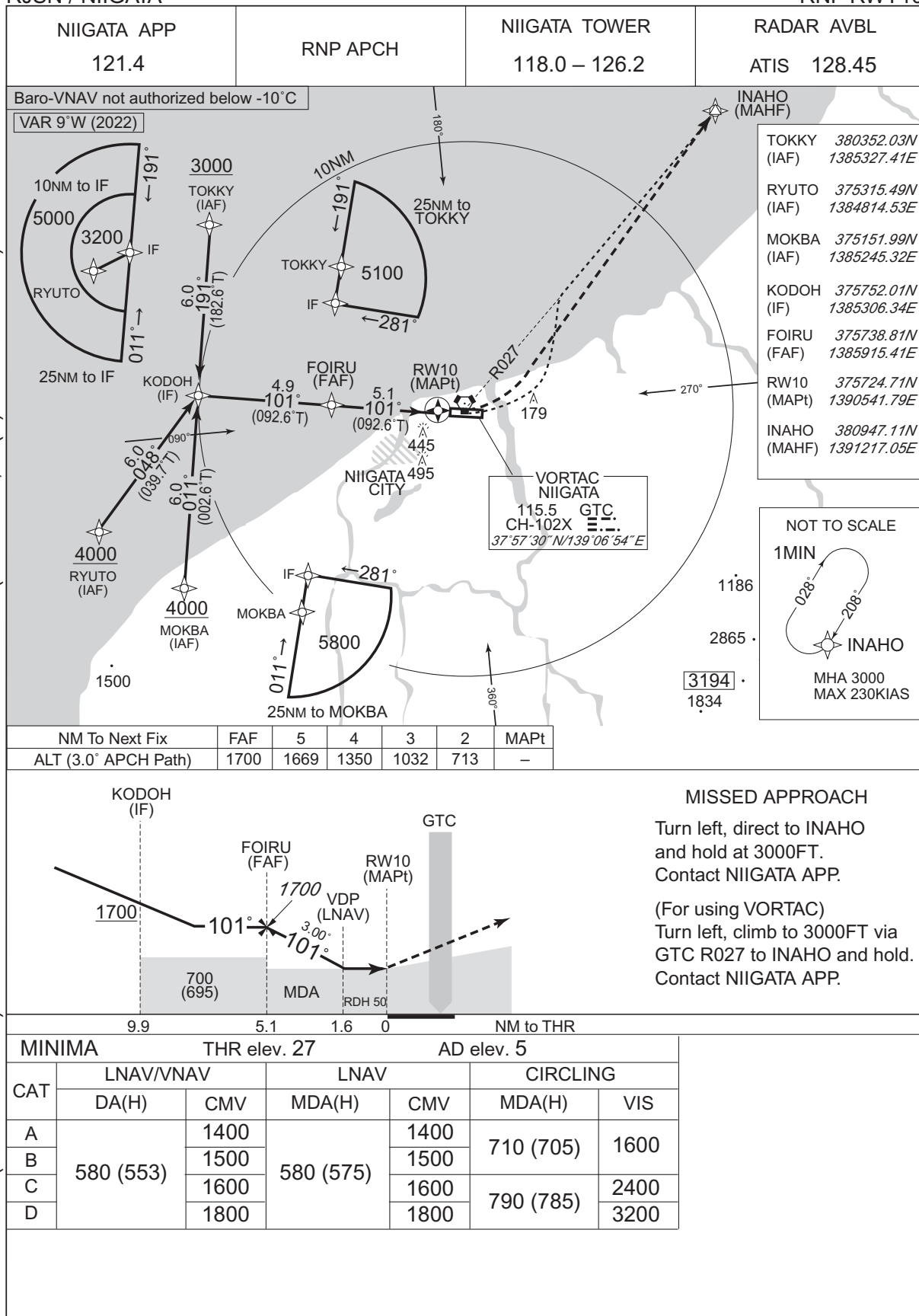


CHANGE : VAR. ALT(3.0°APCH Path). PROC ALT(BAJYO). MINIMA(THR ELEV,MDA(H) for CIRCLING).

INSTRUMENT APPROACH CHART

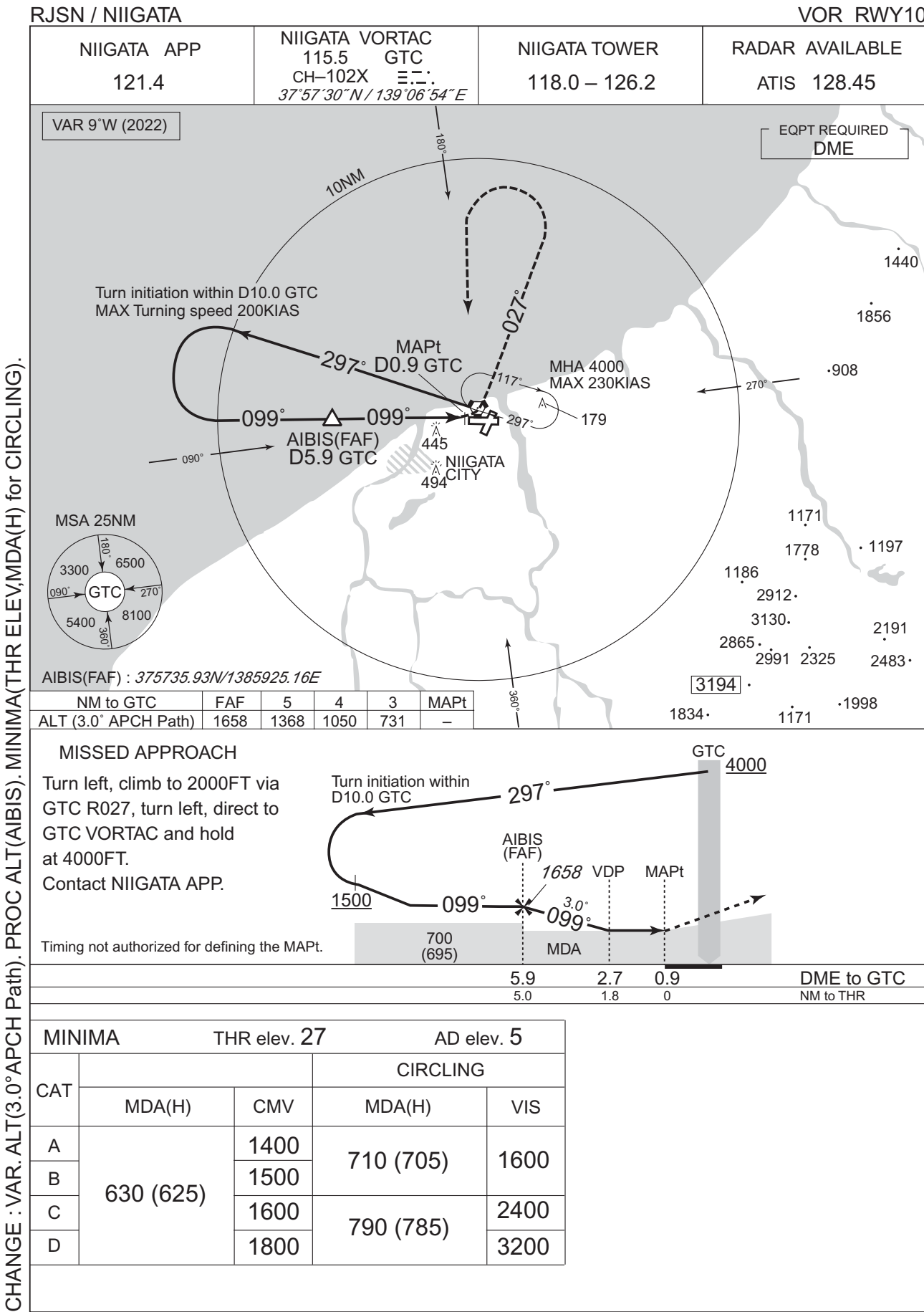
RJSN / NIIGATA

RNP RWY10



CHANGE : VAR. FOIRU established. YUJUN abolished. RNAV HLDG established (INAHO). HLDG for NAV/AIDS abolished (INAHO).
ALT (3.0° APCH Path). Missed APCH course. NM to THR. MINIMA (THR ELEV, DA(H) for LNAV/VNAV).

INSTRUMENT APPROACH CHART

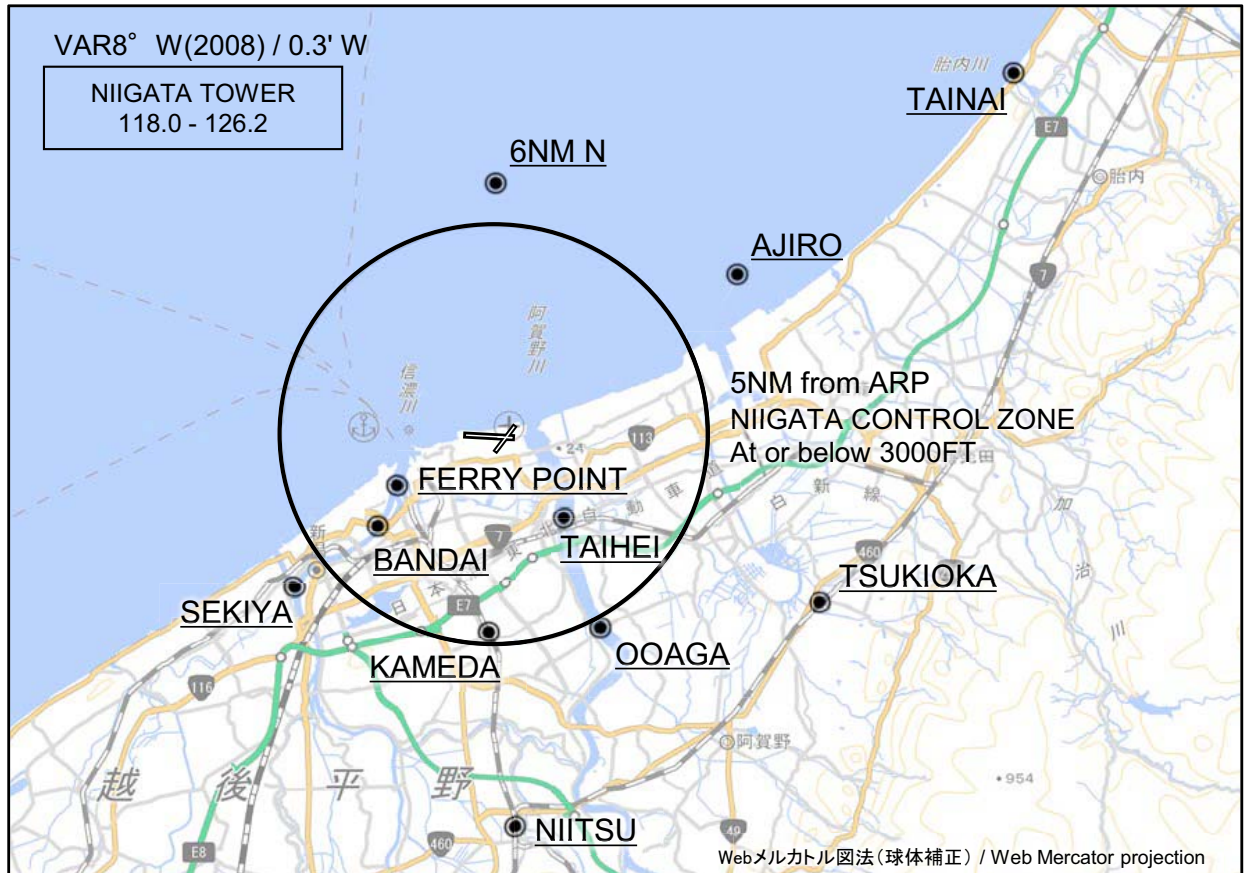


CHANGE : VAR. ALT(3.0°APCH Path). PROC ALT(AIBIS). MINIMA(THR ELEV,MDA(H) for CIRCLING).

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RJSN / NIIGATA

Visual REP



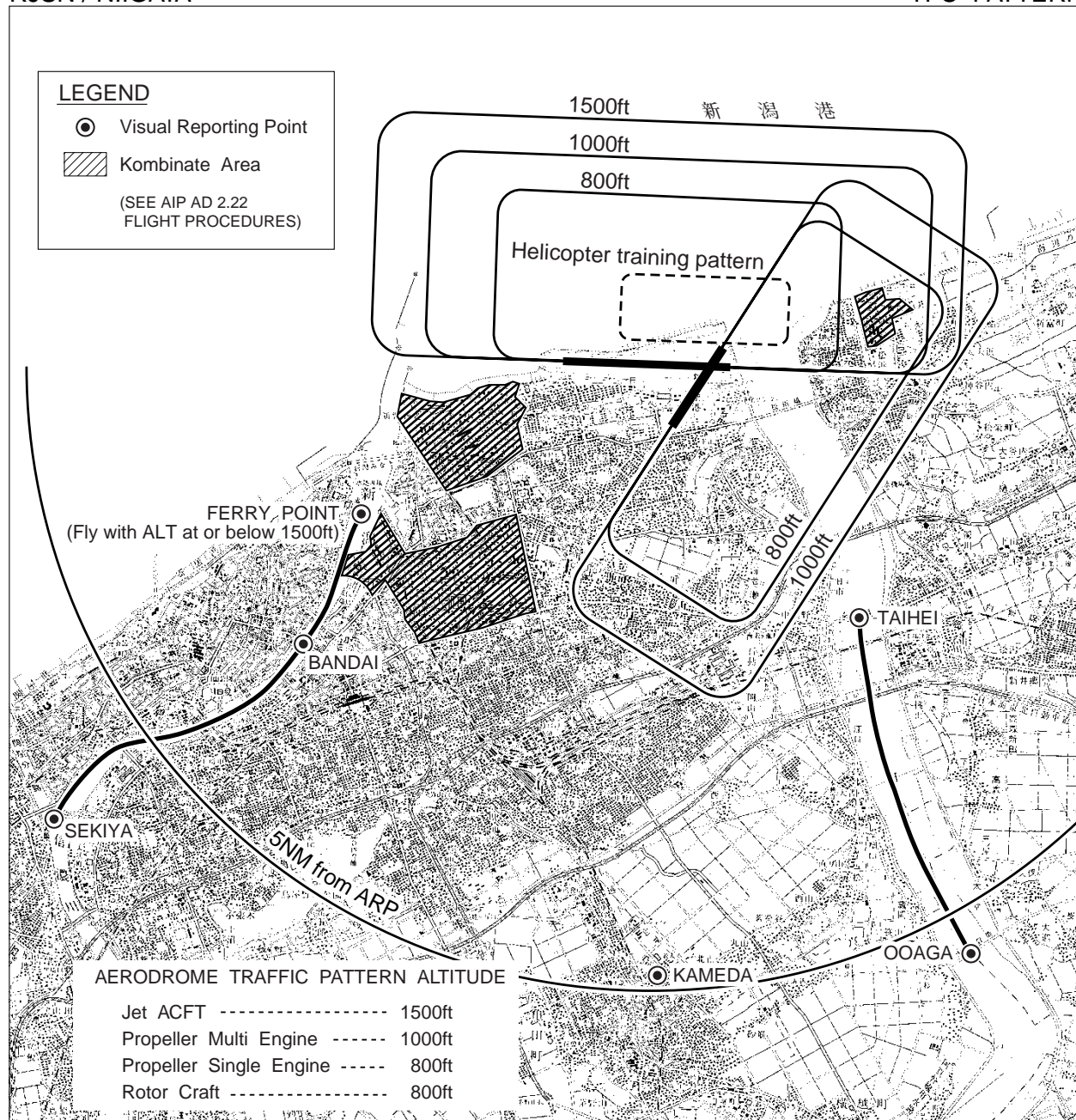
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

Call sign	BRG / DIST from ARP	Remarks
胎内 Tainai	054°T / 14.9NM	胎内川河口 River-mouth
6NM N	360°T / 6.0NM	海上 Over the sea
網代 Ajiro	056°T / 6.9NM	防波堤突端の赤色灯台 Red lighthouse at the tip of breakwater
*フェリーポイント Ferry point	243°T / 2.6NM	万代橋より信濃川下流2kmの地点 (1,500FT以下で通過すること) The point 2km down the Shinano from the Bandai Bridge.(Fly with ALT at or below 1500FT)
*泰平 Taihei	141°T / 2.5NM	橋 Bridge
*万代 Bandai	232°T / 3.5NM	橋 Bridge
関屋 Sekiya	232°T / 6.0NM	分水路への分岐点 Diverging-point for Flood-control channel
月岡 Tsukioka	118°T / 8.6NM	JR駅 Station
大阿賀 Ooaga	152°T / 5.2NM	橋 Bridge
亀田 Kameda	182°T / 4.7NM	JR駅 Station
新津 Niitsu	177°T / 9.4NM	JR駅 Station

*ヘリコプター Use for helicopter

RJSN / NIIGATA

TFC PATTERN



阿賀野ルート：大阿賀～泰平間の阿賀野川に沿う飛行経路（回転翼航空機用）

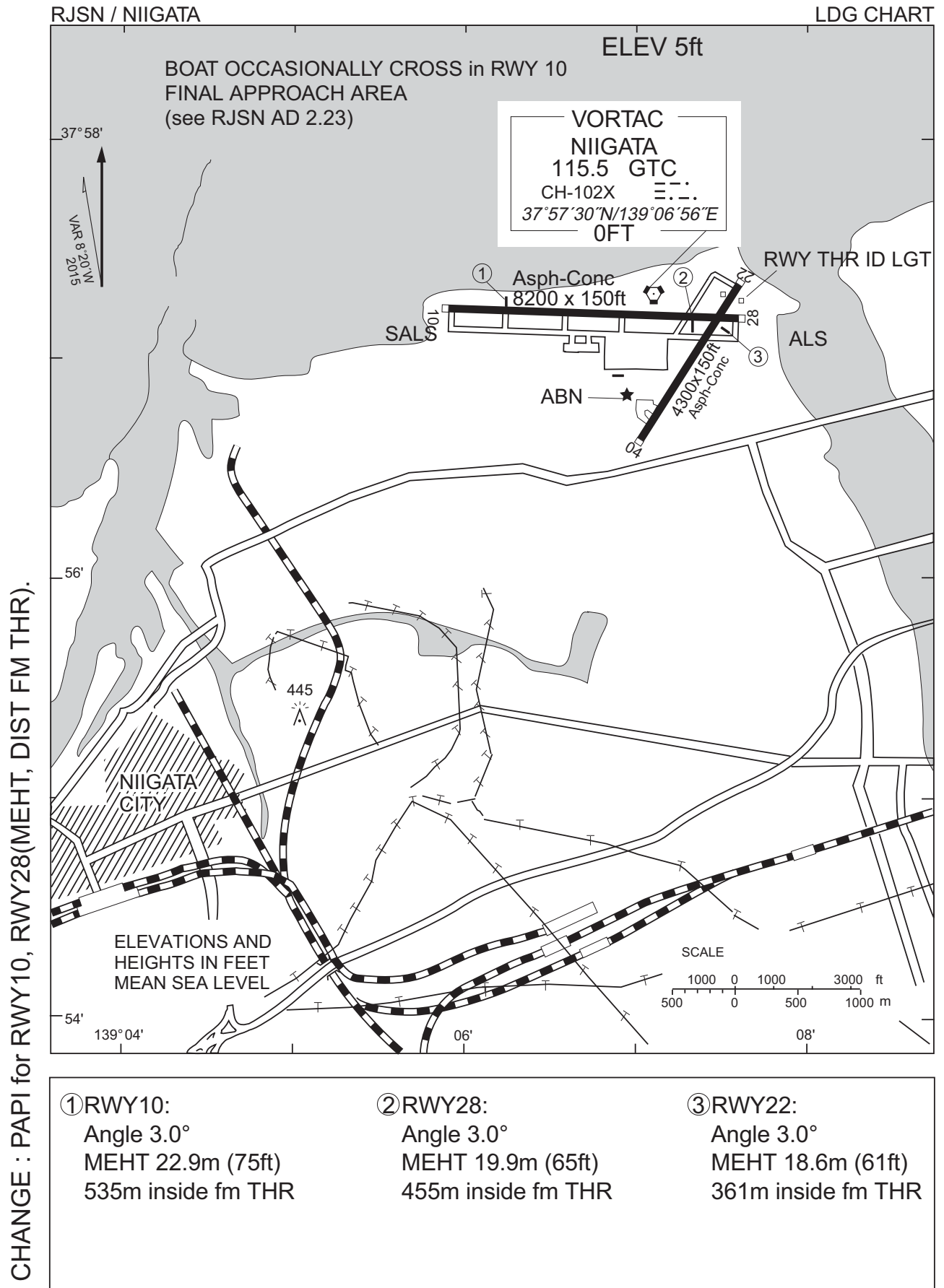
AGANO ROUTE : The route along Agano river between OOAGA and TAIHEI (Use for Rotor Craft)

信濃ルート：関屋～万代～フェリーポイント間の信濃川に沿う飛行経路（回転翼航空機用）

SHINANO ROUTE : The route along Shinano river between SEKIYA, BANDAI and FERRY POINT
(Use for Rotor Craft)

※新潟タワーから上記ルートによる飛行の指示があった場合、VFR回転翼航空機は空港周辺における航空機騒音軽減のためVMCを維持できない場合を除き可能な限り当該ルートに沿って飛行することが望ましい。

※In order to reduce aircraft noise in the vicinity of airport, VFR Rotor Craft is expected to follow the above mentioned route when insructed by Niigata tower. (except the case of IMC)



RJSN / NIIGATA

Minimum Vectoring Altitude CHART

