AERODROME CHART

NIIGATA AIRPORT

ELEV 1.40m(4.6ft)

VAR 8 W-2008
ANNUAL CHANGE 0.3'W

LOC

ELEV 29ft

PAPI ANGLE 3.0°
MEHT 22.7m (74ft)
541m INSIDE FM THR

7▽1 6▽2 5▽3 4▽4 3▽5 2▽6 1▽7

10 28

7△1 6△2 4△4 3△5

TAXIING GUIDANCE SIGN
WIND SPEED METER
WDI

B5 B4 B3 B2 B1

ARP
375721N
1390642E

C6 C5 C4 C3 C2 C1

JSDF-A

VORTAC
(GTC)

PAPI ANGLE 3.0°
MEHT 21.2m (70ft)
482m INSIDE FM THR

A3 P4 P3

GP

RWY TIL 22

ELEV 6ft

ELEV 12ft

RUNWAY
GUARD LIGHTS

WDI

CEILOMETER

WIND SPEED METER

RVR

PAPI ANGLE 3.0°
MEHT 18.6m (61ft)
361m INSIDE FM THR

APRON

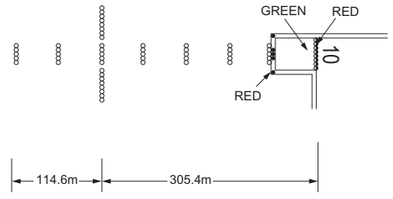
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

FIRE STN
TWR AIS MET
TERMINAL BLDG

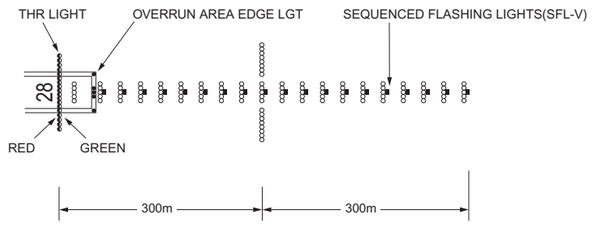
ASR
ABN
JCG

S APRON
S-TWY
A1
ELEV 23ft
04
RWY TIL

SIMPLE APPROACH LIGHTING SYSTEM



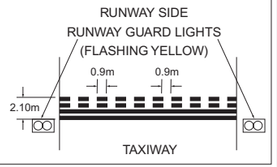
APPROACH LIGHTING SYSTEM



RUNWAY-HOLDING POSITION MARKINGS and RUNWAY GUARD LIGHTS

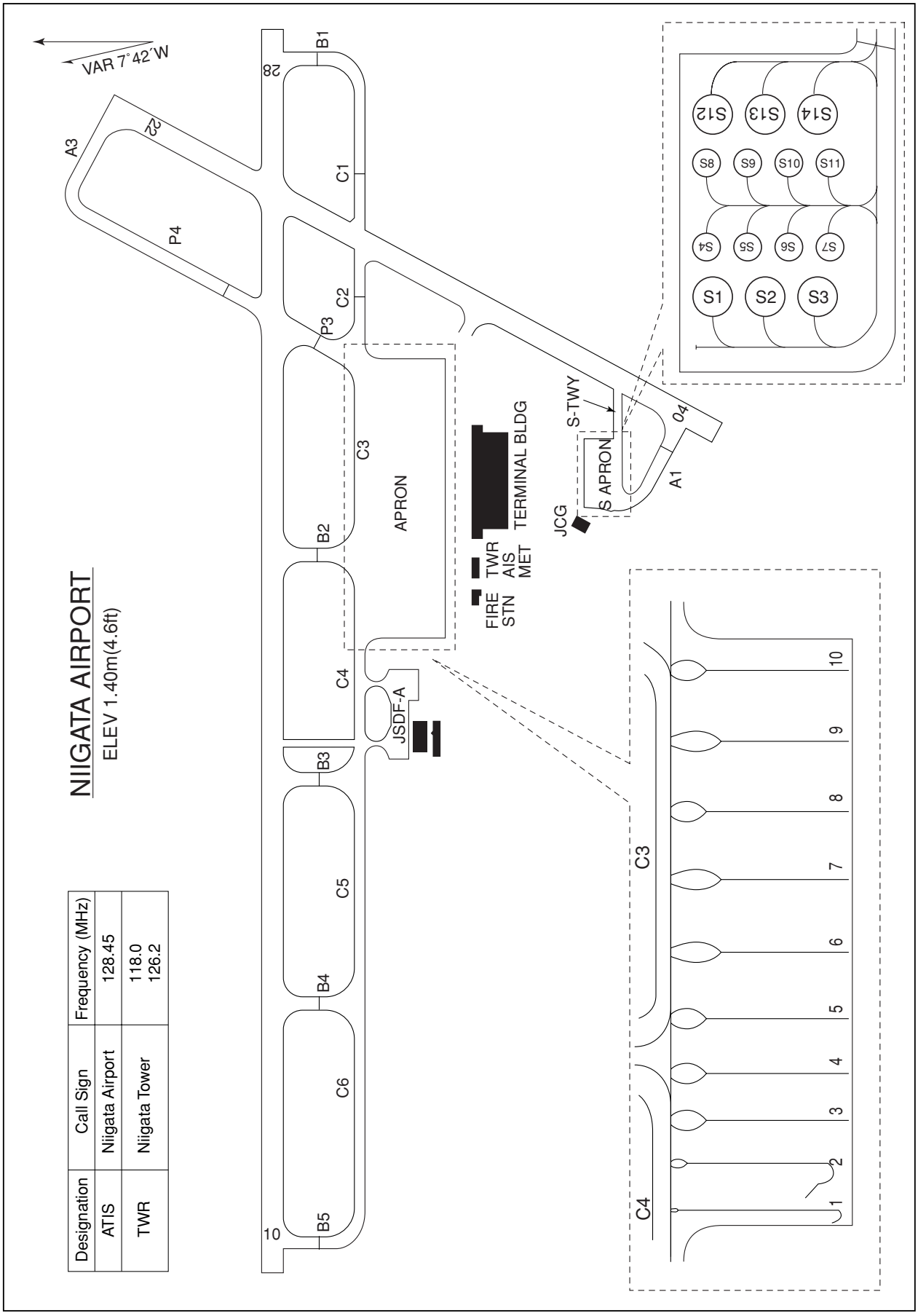
Runway-holding position markings and Runway guard lights are located on taxiway B-1 through B-5, C-1, C-2 and P-3. Their locations are 75m off the runway centerline.

COMMON WAYS OF ITS MARKING AND LIGHTS



CHANGE : CEILOMETER, RVR, WIND SPEED METER relocated.

RJSN / NIIGATA AD CHART



Designation	Call Sign	Frequency (MHz)
ATIS	Niigata Airport	128.45
TWR	Niigata Tower	118.0 126.2

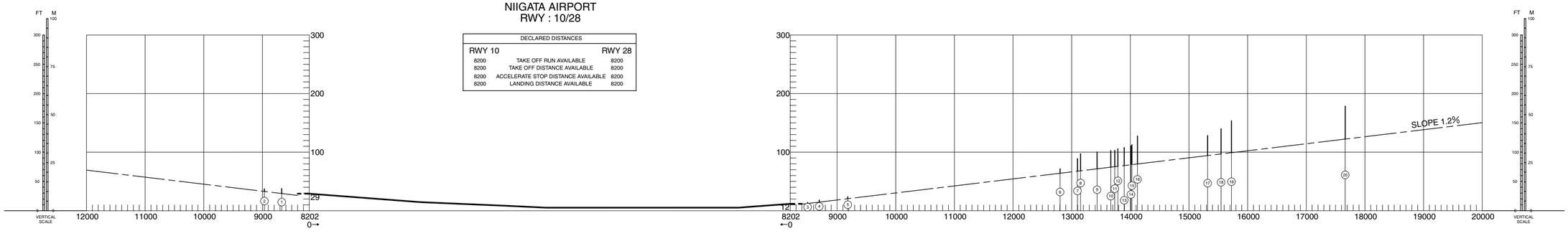
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

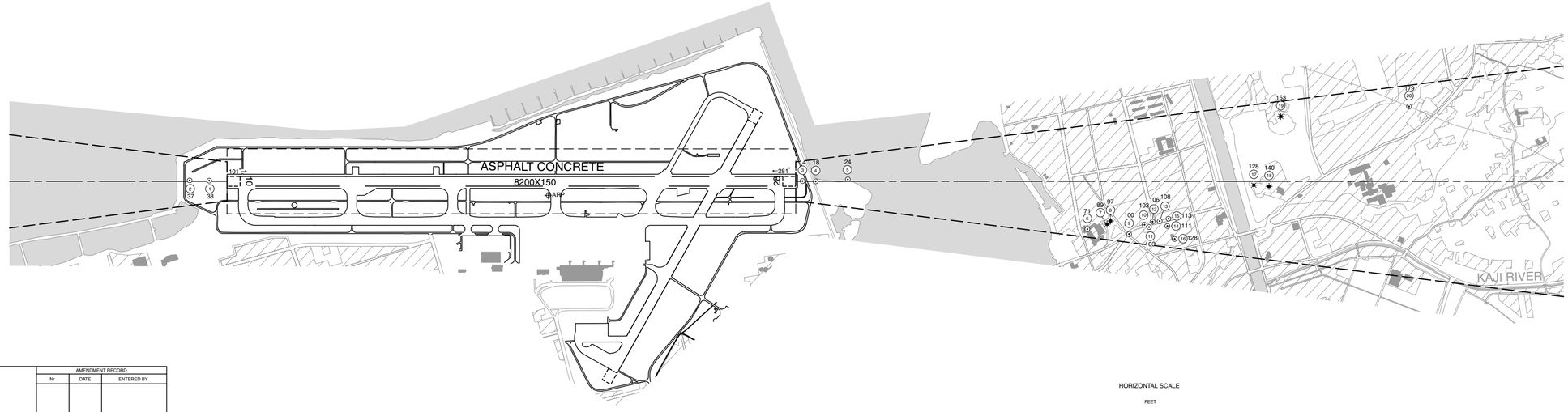
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 8˚09' W-APR 2015

NIIGATA AIRPORT
RWY : 10/28

DECLARED DISTANCES		
RWY 10		RWY 28
8200	TAKE OFF RUN AVAILABLE	8200
8200	TAKE OFF DISTANCE AVAILABLE	8200
8200	ACCELERATE STOP DISTANCE AVAILABLE	8200
8200	LANDING DISTANCE AVAILABLE	8200





HORIZONTAL SCALE

FEET
1000 500 0 1000 2000 3000 4000 5000 6000 7000 8000ft

METRES
300 0 500 1000 1500 2000 2500m

LEGEND	
①	IDENTIFICATION NUMBER
	POLE, TOWER, SPIRE, ANTENNA, ETC
	TREE
	LEVEE
	RAILROAD
	RIVER
	TRANSMISSION LINE OR OVERHEAD CABLE

AMENDMENT RECORD		
Nr	DATE	ENTERED BY

AERODROME OBSTACLE CHART-ICAO
TYPE B

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME ELEVATION 4.6ft ARP

LEGEND

- AERODROME REFERENCE POINT 37°57'21"N 139°06'42"E
- POLE, TOWER, SPIRE, ANTENNA, ETC
- AERONAUTICAL GROUND LIGHT
- OBSTRUCTION LIGHT
- BUILDING OR LARGE STRUCTURE
- RAILROAD / TRIANGULATION POINT
- TRANSMISSION LINE OR OVERHEAD CABLE
- LEVEE
- TREE / RIVER
- LAKE / CONTOURS(ft)

AMENDMENT RECORD

Nr.	DATE	ENTERED BY

HORIZONTAL SCALE

FEET: 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000ft

METRES: 300 0 500 1000 1500 2000 2500 3000m

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA SID

OKESA FIVE DEPARTURE

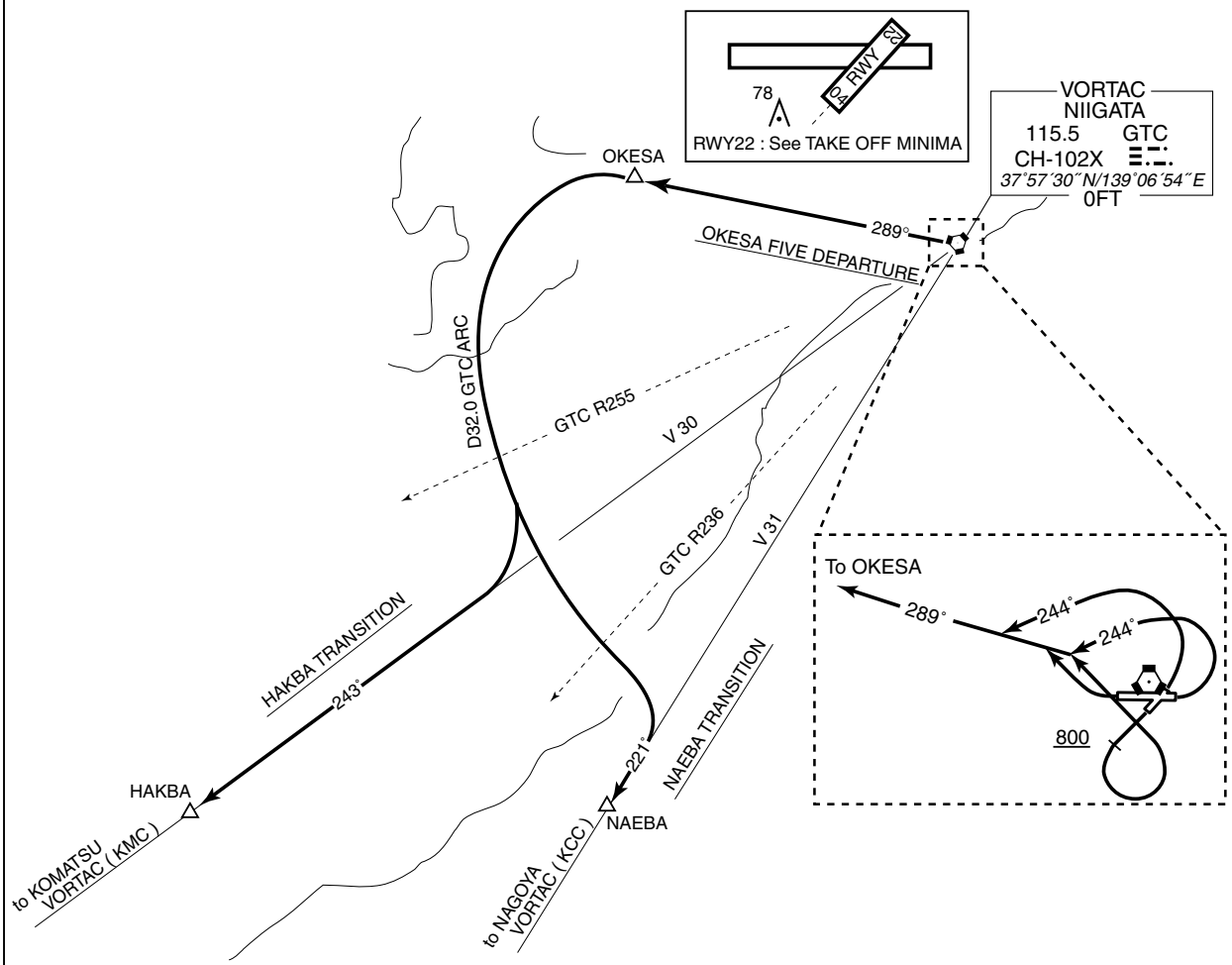
RWY 04/10 : Turn left HDG 244˚,...
RWY 22 : Climb RWY HDG to 800FT, turn left,...
RWY 28 : Turn right,....
.... climb via GTC R289 to OKESA.

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.

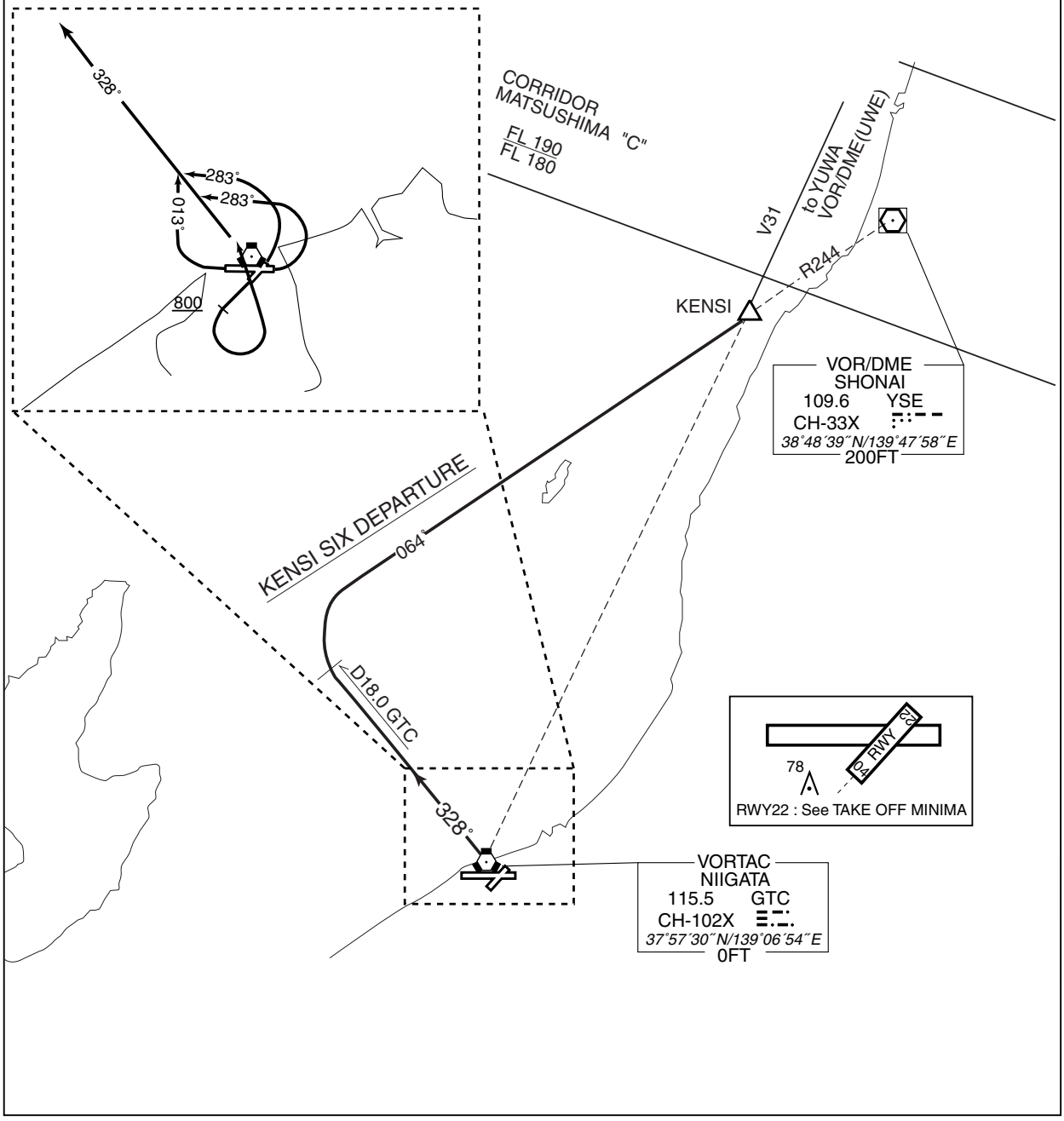


STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA SID

KENSI SIX DEPARTURE

RWY 04/10 : Turn left HDG 283˚,...
RWY 22 : Climb RWY HDG to 800FT, turn left,...
RWY 28 : Turn right HDG 013˚,...
... climb via GTC R328 to GTC 18.0DME, turn right to intercept and proceed via YSE R244 to KENSI.

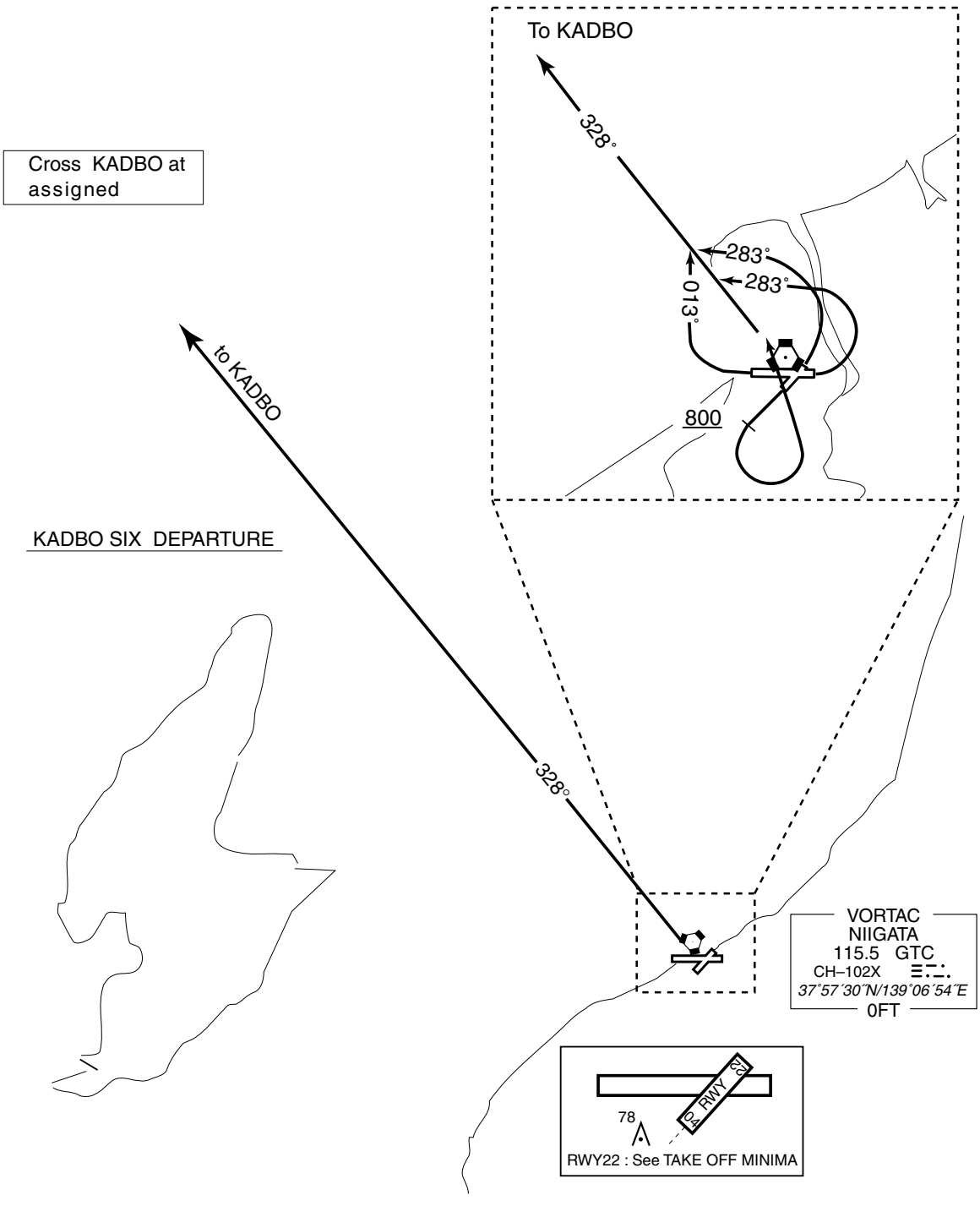


STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA SID

KADBO SIX DEPARTURE

RWY 04/10 : Turn left HDG 283˚,...
RWY 22 : Climb RWY HDG to 800FT, turn left,...
RWY 28 : Turn right HDG 013˚,....
.... climb via GTC R328 to KADBO.
Cross KADBO at assigned altitude.



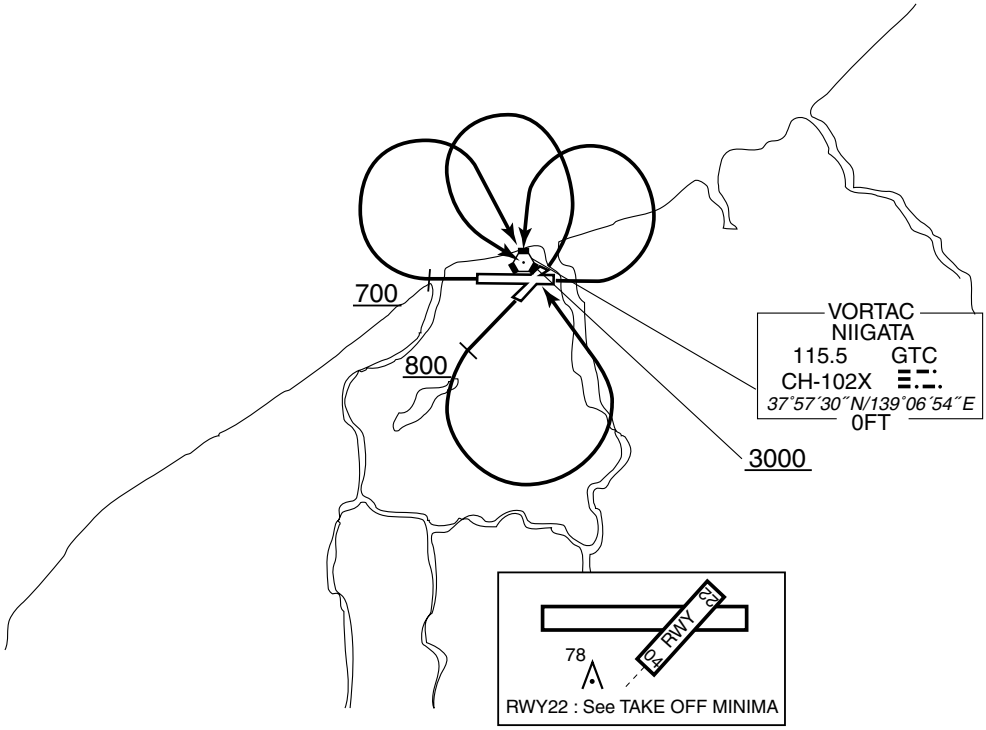
STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA SID

NIIGATA REVERSAL SIX DEPARTURE

RWY 04/10 : 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.

NIIGATA REVERSAL SIX DEPARTURE

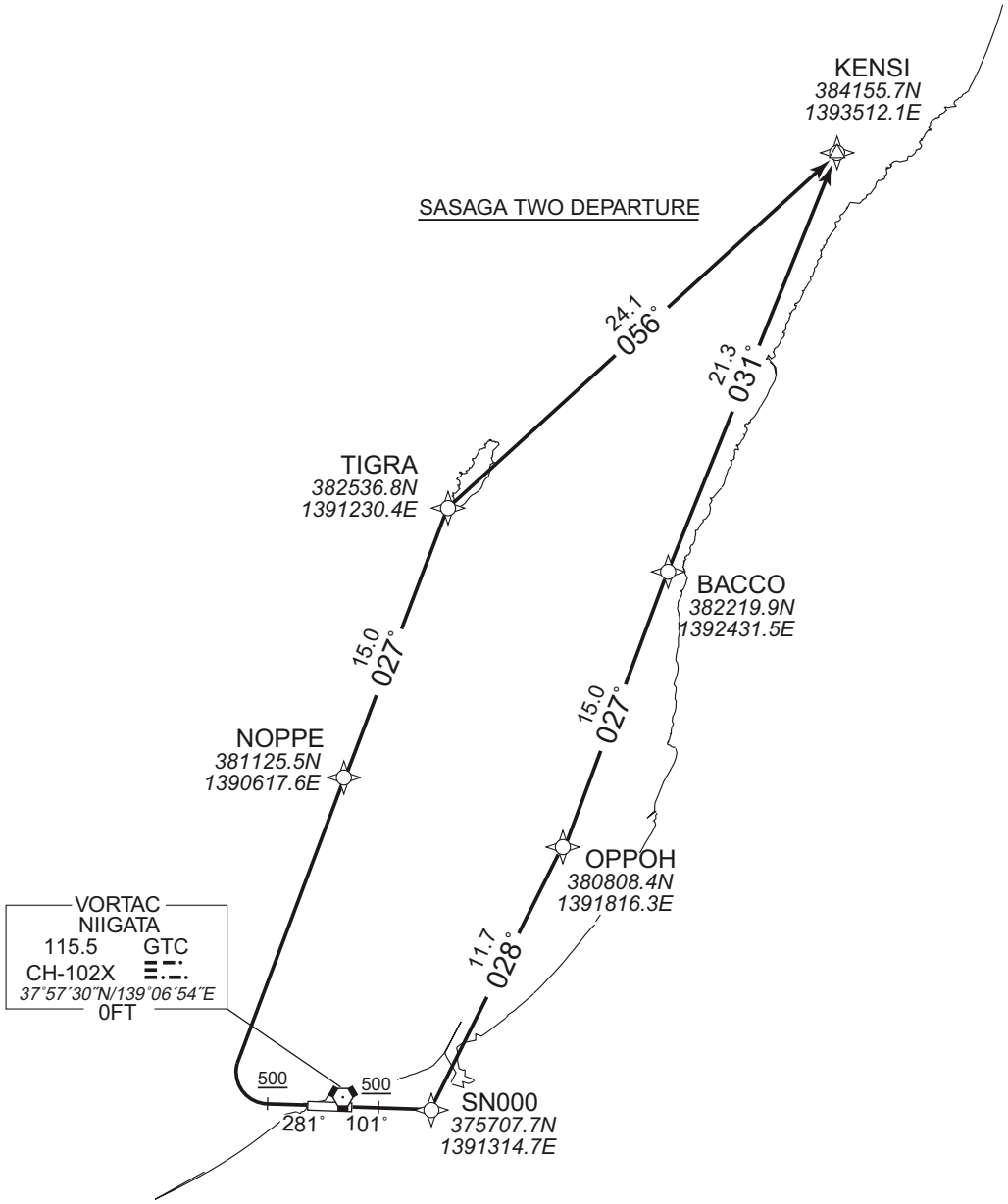


STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA — RNAV SID

SASAGA TWO DEPARTURE		RNAV1
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 : 11.0NM to KENSI – 5.0NM to KENSI YTE : 11.0NM to KENSI – 5.0NM to KENSI RWY28 : GTC : 5.0NM to TIGRA – 9.0NM to KENSI YSE : 5.0NM to TIGRA – 9.0NM to KENSI
	DME GAP	RWY10 : DER – 11.0NM to KENSI 5.0NM to KENSI – KENSI RWY28 : DER – 5.0NM to TIGRA 9.0NM to KENSI – KENSI
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

VAR 8˚W (2018)



CHANGE : VAR

SASAGA TWO DEPARTURE

RWY10 : Climb on HDG101˚ at or above 500FT, direct to SN000, to OPPOH, to BACCO, to KENSI.
RWY28 : Climb on HDG281˚ at or above 500FT, turn right direct to NOPPE, to TIGRA, to KENSI.

NOTE RWY10 : 5.0% climb gradient required up to 500FT.
OBST ALT 197FT located at 0.9NM 115˚ FM end of RWY10.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA RNAV SID

SASAGA 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)	-8.3	–	–	+500	–	–	RNAV1
002	DF	SN000	–	–	-8.3	–	–	–	–	–	RNAV1
003	TF	OPPOH	–	028 (019.7)	-8.3	11.7	–	–	–	–	RNAV1
004	TF	BACCO	–	027 (019.1)	-8.3	15.0	–	–	–	–	RNAV1
005	TF	KENSI	–	031 (023.0)	-8.3	21.3	–	–	–	–	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)	-8.3	–	–	+500	–	–	RNAV1
002	DF	NOPPE	–	–	-8.3	–	R	–	–	–	RNAV1
003	TF	TIGRA	–	027 (018.9)	-8.3	15.0	–	–	–	–	RNAV1
004	TF	KENSI	–	056 (047.3)	-8.3	24.1	–	–	–	–	RNAV1

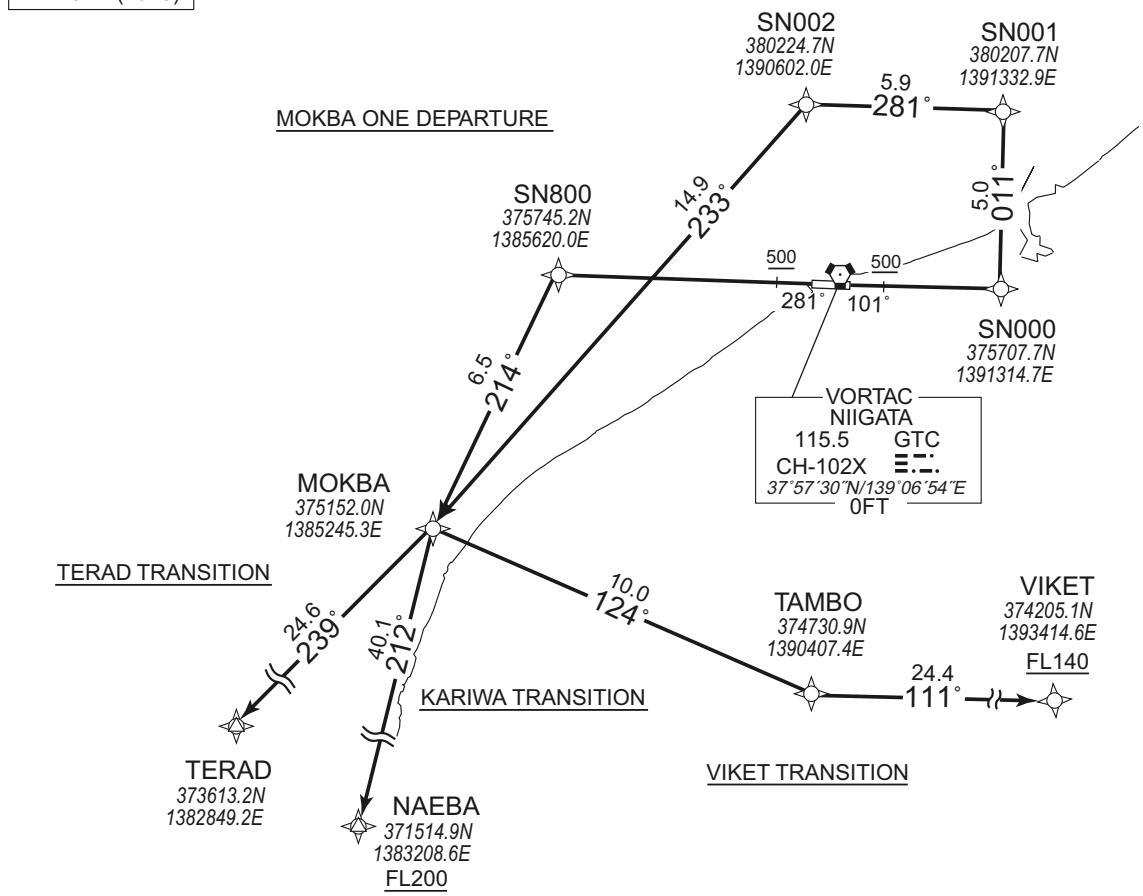
CHANGE : VAR

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA — RNAV SID and TRANSITION

MOKBA ONE DEPARTURE KARIWA TRANSITION / TERAD TRANSITION / VIKET TRANSITION		RNAV1
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	VIKET TRANSITION : GTC : 13.0NM to VIKET – 11.0NM to VIKET NTE : 13.0NM to VIKET – 5.0NM to VIKET
	DME GAP	RWY10 : DER – MOKBA RWY28 : DER – MOKBA KARIWA TRANSITION : MOKBA – 3.0NM to NAEBA TERAD TRANSITION : MOKBA – TERAD VIKET TRANSITION : MOKBA – 13.0NM to VIKET
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

VAR 8˚W (2018)



MOKBA ONE DEPARTURE

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.
OBST ALT 197FT located at 0.9NM 115˚ FM end of RWY10.

KARIWA TRANSITION

From MOKBA, to NAEBA at or above FL200.

TERAD TRANSITION

From MOKBA, to TERAD.

VIKET TRANSITION

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

CHANGE : New PROC (VIKET TRANSITION), Abolition PROC (KAMOH TRANSITION), VAR

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID and TRANSITION

CHANGE : New PROC (VIKET TRANSITION), Abolition PROC (KAMOH TRANSITION), VAR

MOKBA 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)	-8.3	–	–	+500	–	–	RNAV1
002	DF	SN000	–	–	-8.3	–	–	–	–	–	RNAV1
003	TF	SN001	–	011 (002.7)	-8.3	5.0	–	–	–	–	RNAV1
004	TF	SN002	–	281 (272.8)	-8.3	5.9	–	–	–	–	RNAV1
005	TF	MOKBA	–	233 (224.9)	-8.3	14.9	–	–	–	–	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)	-8.3	–	–	+500	–	–	RNAV1
002	DF	SN800	–	–	-8.3	–	–	–	–	–	RNAV1
003	TF	MOKBA	–	214 (205.6)	-8.3	6.5	–	–	–	–	RNAV1

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	–	–	-8.3	–	–	–	–	–	RNAV1
002	TF	NAEBA	–	212 (204.2)	-8.3	40.1	–	+FL200	–	–	RNAV1

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	–	–	-8.3	–	–	–	–	–	RNAV1
002	TF	TERAD	–	239 (230.5)	-8.3	24.6	–	–	–	–	RNAV1

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	–	–	-8.3	–	–	–	–	–	RNAV1
002	TF	TAMBO	–	124 (115.8)	-8.3	10.0	–	–	–	–	RNAV1
003	TF	VIKET	–	111 (102.7)	-8.3	24.4	–	+FL140	–	–	RNAV1

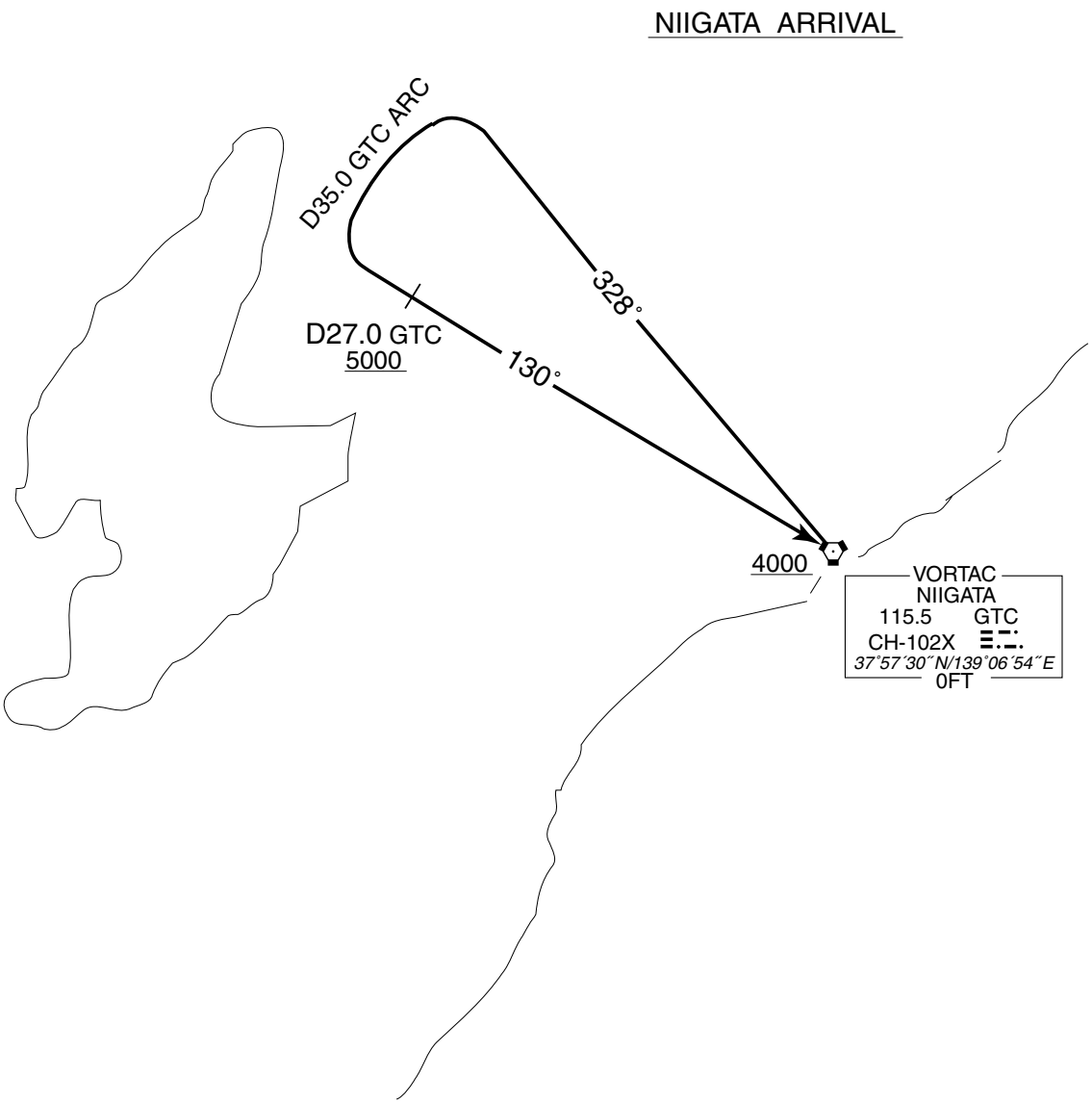
STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA STAR

NIIGATA ARRIVAL

From over GTC VORTAC, proceed via GTC R328, turn left to intercept and proceed via GTC 35.0DME counterclockwise ARC, turn left, proceed via GTC R310 to GTC VORTAC.

Cross GTC R310/27.0DME at or above 5000FT, cross GTC VORTAC at or above 4000FT.



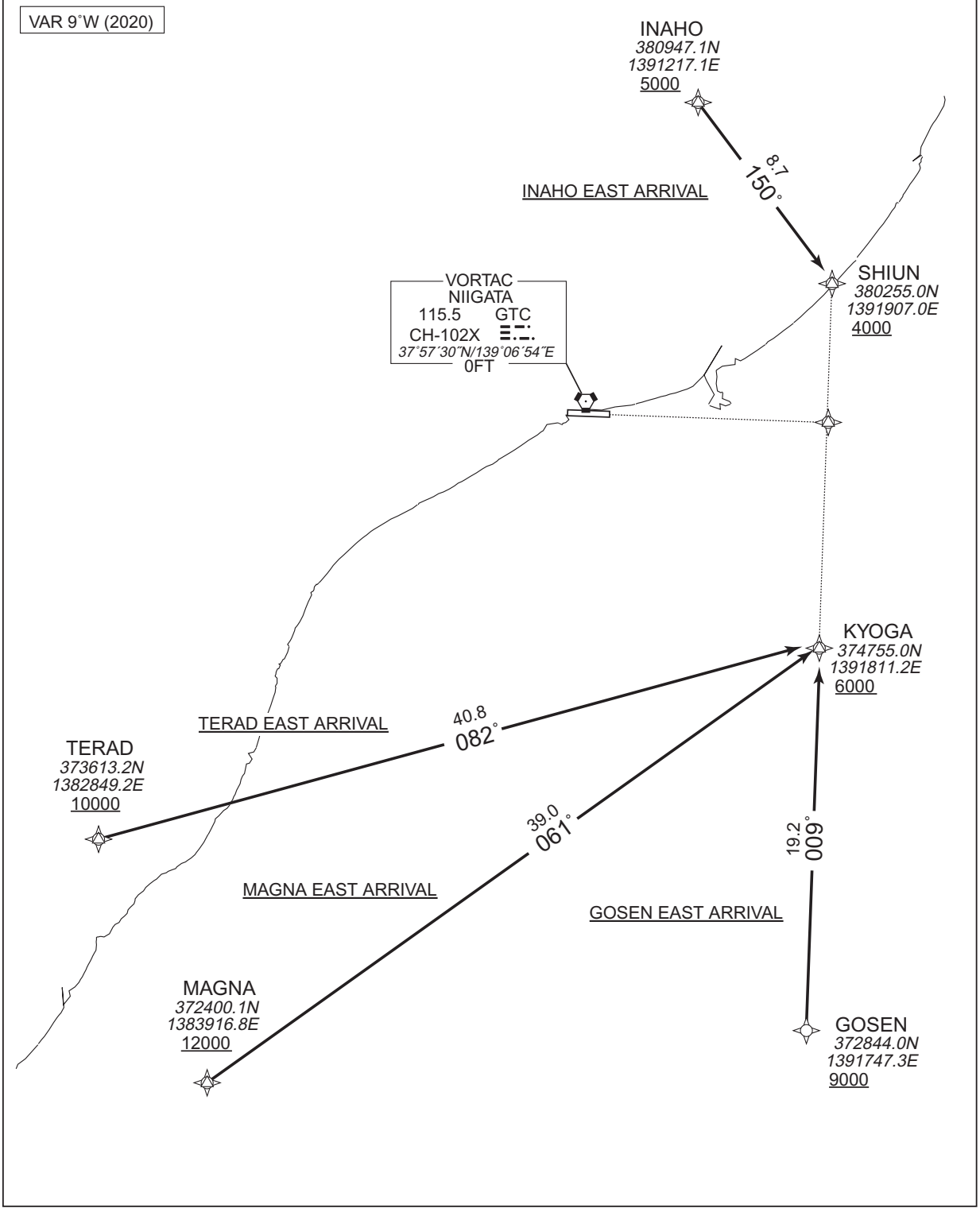
STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA — RNAV STAR RWY28

INAHO EAST ARRIVAL GOSEN EAST ARRIVAL MAGNA EAST ARRIVAL TERAD EAST ARRIVAL	RNAV1

Note 1) GNSS required.
2) RADAR service required.

CHANGE : VAR. Course FM TERAD to KYOGA, FM MAGNA to KYOGA. ALT restriction at MAGNA.



STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA RNAV STAR RWY28

CHANGE : MAG VAR. Course FM TERAD to KYOGA, FM MAGNA to KYOGA. ALT restriction at MAGNA.
Critical DME, DME GAP (MAGNA EAST ARRIVAL).

INAHO EAST ARRIVAL

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

Critical DME	–
DME GAP	INAHO - SHIUN
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	INAHO	–	–	-8.5	–	–	+5000	–	–	RNAV1
002	TF	SHIUN	–	150 (141.9)	-8.5	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 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	GOSEN	–	–	-8.5	–	–	+9000	–	–	RNAV1
002	TF	KYOGA	–	009 (000.9)	-8.5	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 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	MAGNA	–	–	-8.5	–	–	+12000	–	–	RNAV1
002	TF	KYOGA	–	061 (052.0)	-8.5	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 Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

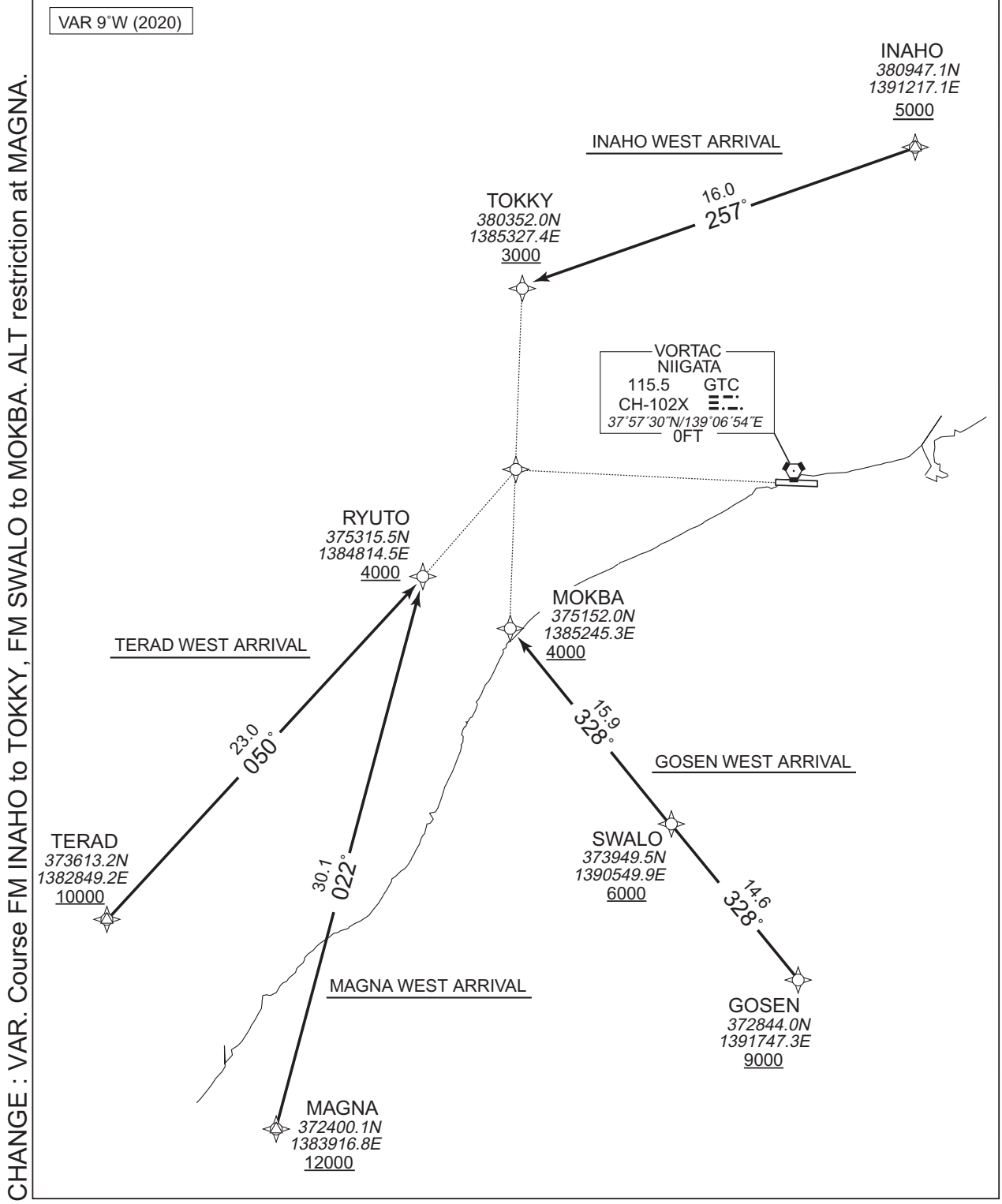
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TERAD	–	–	-8.5	–	–	+10000	–	–	RNAV1
002	TF	KYOGA	–	082 (073.1)	-8.5	40.8	–	+6000	–	–	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA — RNAV STAR RWY10

INAHO WEST ARRIVAL GOSEN WEST ARRIVAL MAGNA WEST ARRIVAL TERAD WEST ARRIVAL	RNAV1

Note 1) GNSS required.
2) RADAR service required.



RJSN / NIIGATA RNAV STAR RWY10

CHANGE : MAG VAR. Course FM INAHO to TOKKY, FM SWALO to MOKBA. ALT restriction at MAGNA.
Critical DME, DME GAP (MAGNA WEST ARRIVAL).

INAHO WEST ARRIVAL

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

Critical DME	–
DME GAP	INAHO - TOKKY
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	INAHO	–	–	-8.5	–	–	+5000	–	–	RNAV1
002	TF	TOKKY	–	257 (248.3)	-8.5	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 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	GOSEN	–	–	-8.5	–	–	+9000	–	–	RNAV1
002	TF	SWALO	–	328 (319.5)	-8.5	14.6	–	+6000	–	–	RNAV1
003	TF	MOKBA	–	328 (319.4)	-8.5	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 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	MAGNA	–	–	-8.5	–	–	+12000	–	–	RNAV1
002	TF	RYUTO	–	022 (013.6)	-8.5	30.1	–	+4000	–	–	RNAV1

TERAD WEST ARRIVAL

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

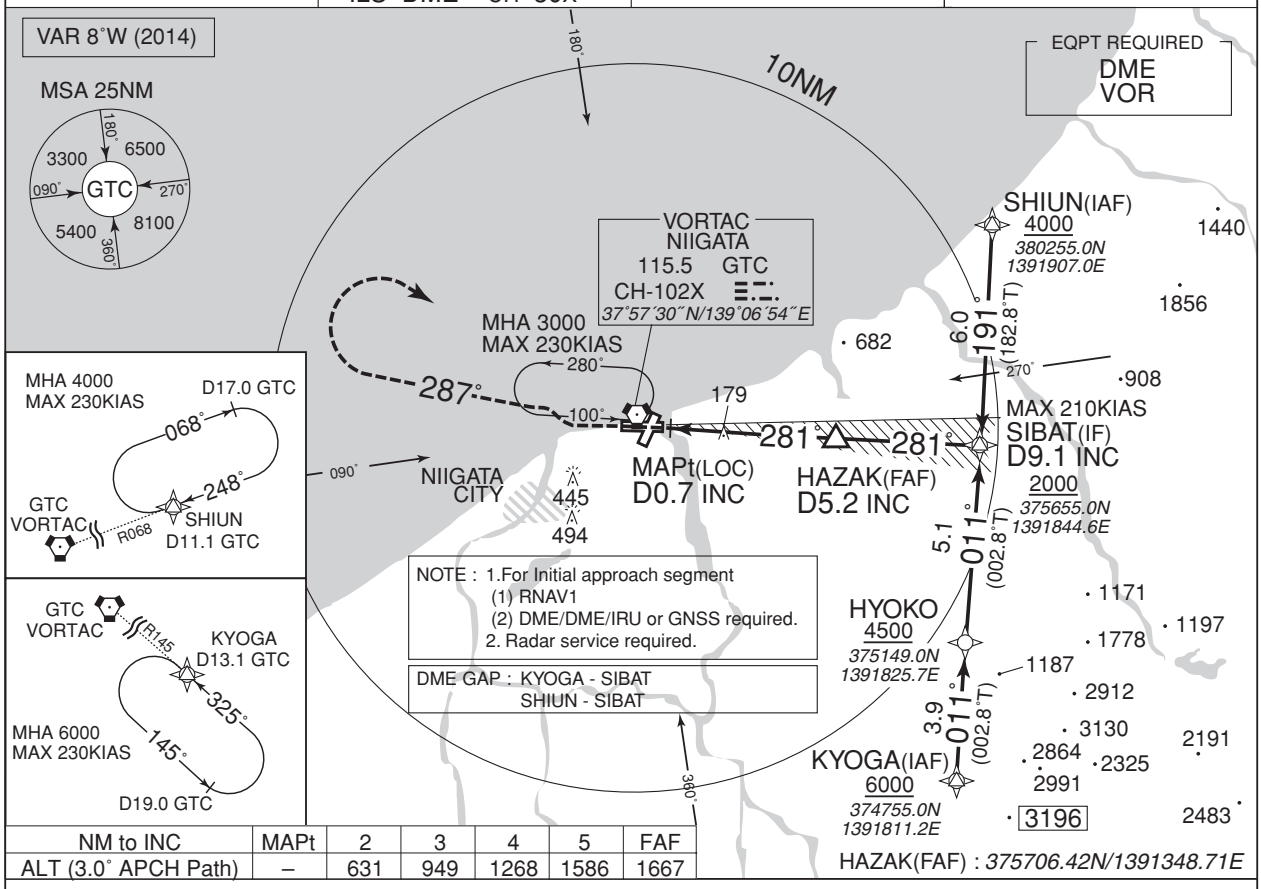
Critical DME	–
DME GAP	TERAD - RYUTO
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	TERAD	–	–	-8.5	–	–	+10000	–	–	RNAV1
002	TF	RYUTO	–	050 (041.9)	-8.5	23.0	–	+4000	–	–	RNAV1

INSTRUMENT APPROACH CHART

RJSN / NIIGATA — ILS Z or LOC Z RWY28

NIIGATA APP	ILS – LOC	NIIGATA TOWER	RADAR AVBL
121.4	109.3 INC ILS–GP 332.0 ILS–DME CH–30X	118.0 – 126.2	ATIS 128.45

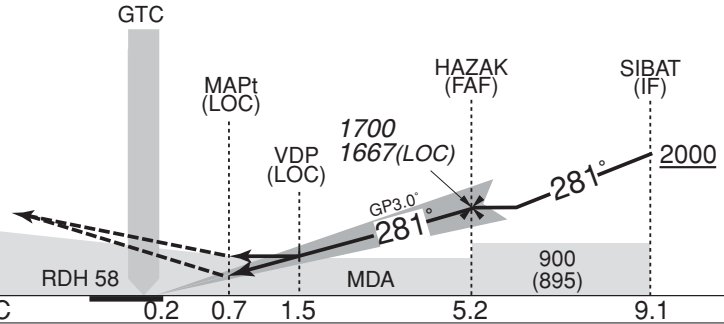


NM to INC	MAPt	2	3	4	5	FAF
ALT (3.0° APCH Path)	–	631	949	1268	1586	1667

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.



DME to INC	0.2	0.7	1.5	5.2	9.1
NM to THR	0	0.5	1.3	5.0	8.9

Missed APCH climb gradient MNM 3.0%

MINIMA THR elev. 12 AD elev. 5

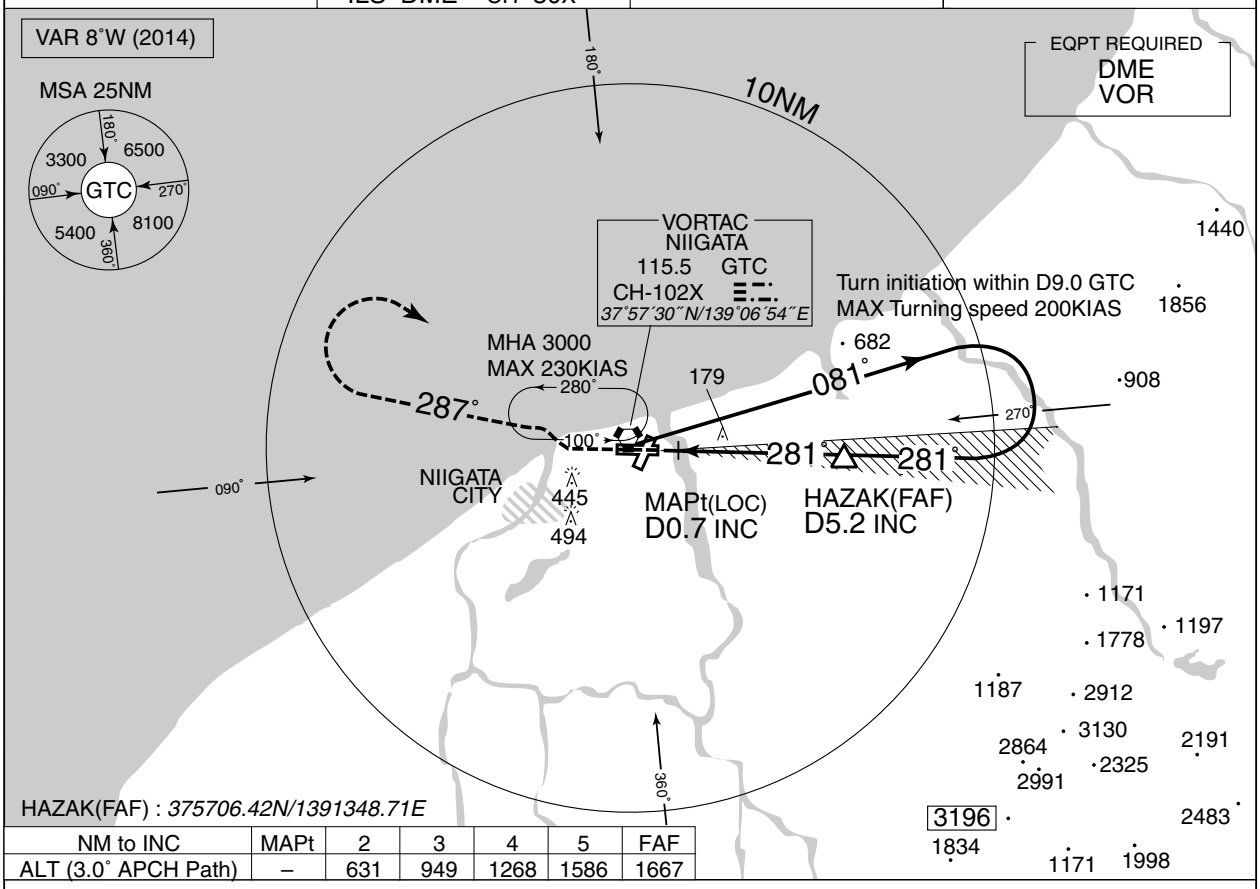
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	212 (200)	700	470 (465)	1400	720 (715)	1600
B				1500		
C				1600	790 (785)	2400
D				1800		3200

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

INSTRUMENT APPROACH CHART

RJSN / NIIGATA ILS Y or LOC Y RWY28

NIIGATA APP	ILS – LOC 109.3 INC ILS–GP 332.0 ILS–DME CH–30X	NIIGATA TOWER	RADAR AVBL
121.4		118.0 – 126.2	ATIS 128.45



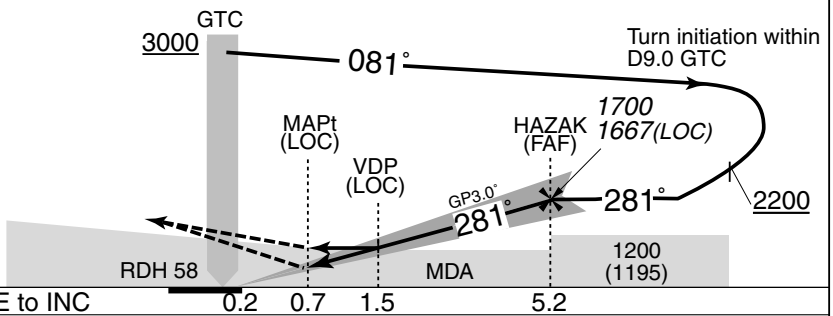
HAZAK(FAF) : *375706.42N/1391348.71E*

NM to INC	MAPt	2	3	4	5	FAF
ALT (3.0° APCH Path)	–	631	949	1268	1586	1667

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.



DME to INC	0.2	0.7	1.5	5.2
NM to THR	0	0.5	1.3	5.0

Missed APCH climb gradient MNM 3.0%

MINIMA THR elev. 12 AD elev. 5

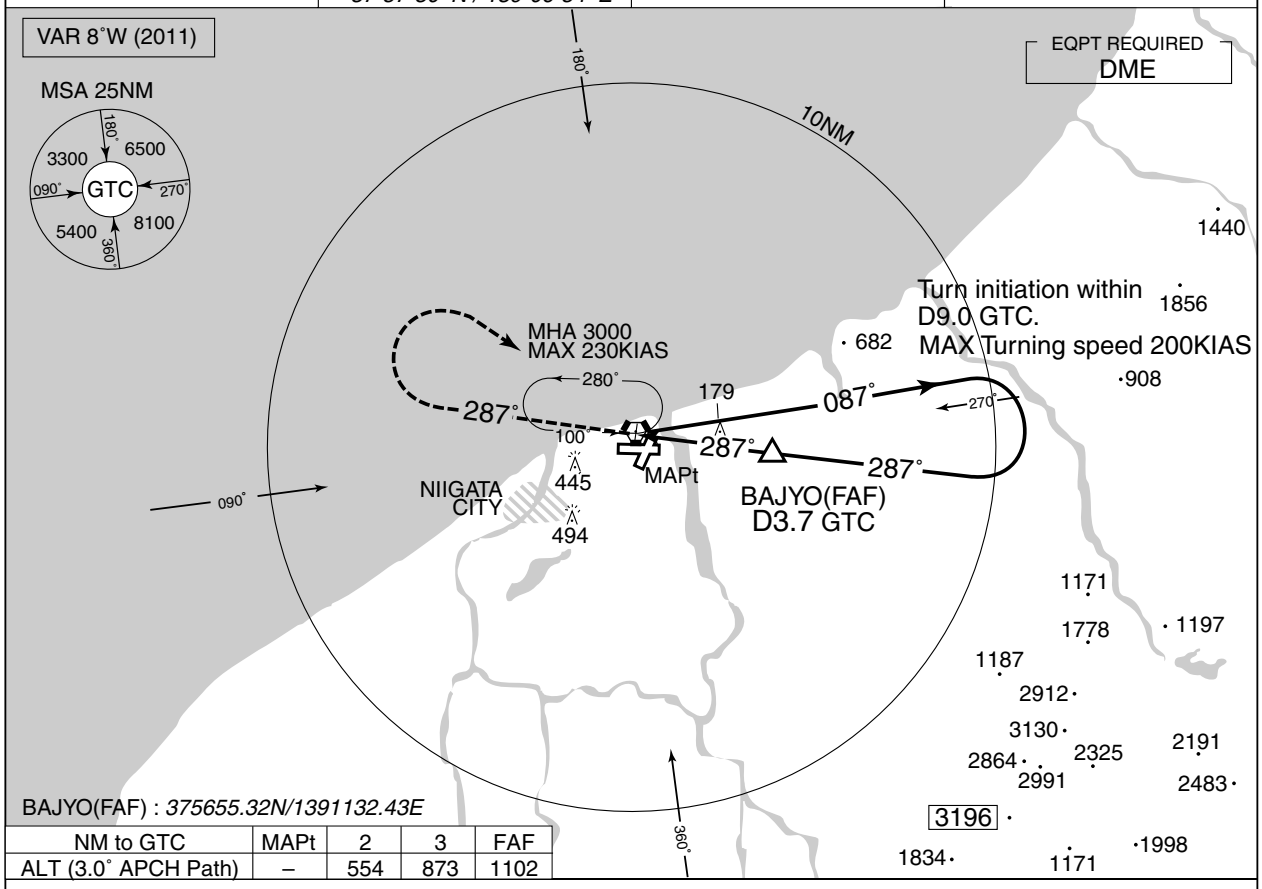
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	212 (200)	700	470 (465)	1400	720 (715)	1600
B				1500		
C				1600	790 (785)	2400
D				1800		3200

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

INSTRUMENT APPROACH CHART

RJSN / NIIGATA VOR RWY28

NIIGATA APP	NIIGATA VORTAC 115.5 GTC CH–102X *37°57′30″N / 139°06′54″E*	NIIGATA TOWER	RADAR AVAILABLE
121.4		118.0 – 126.2	ATIS 128.45

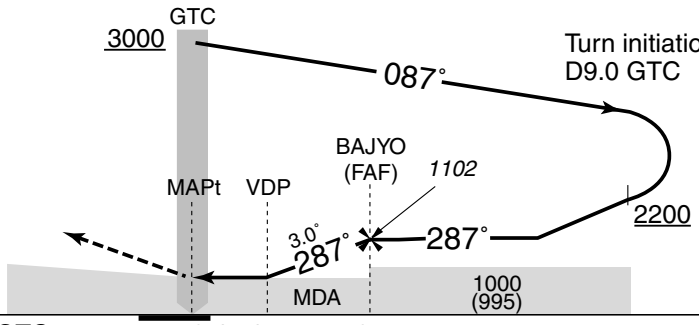


NM to GTC	MAPt	2	3	FAF
ALT (3.0° APCH Path)	–	554	873	1102

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.



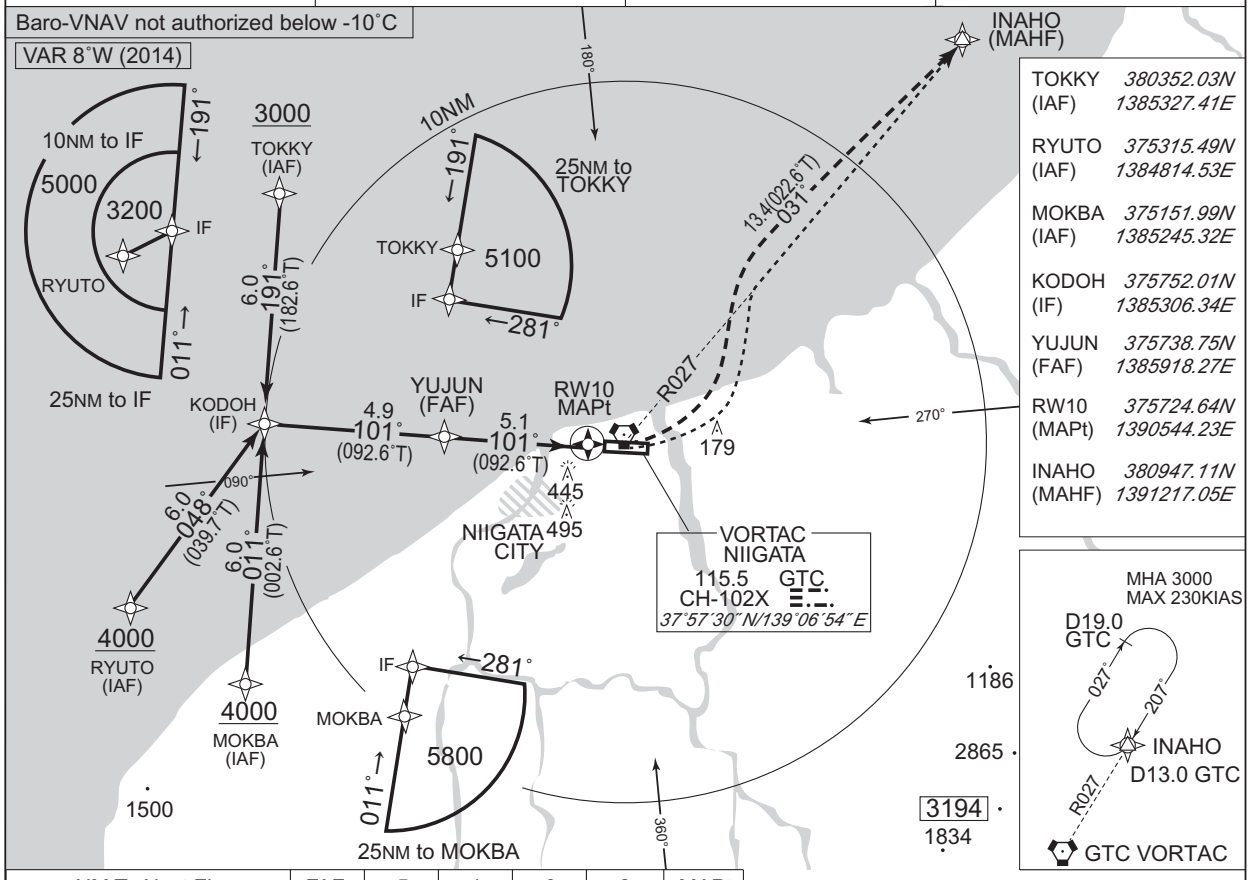
DME to GTC	0.4	1.7	3.7
NM to THR	0	1.3	3.3

MINIMA	THR elev. 12		AD elev. 5	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	450 (445)	1200	720 (715)	1600
B		1300		
C		1400	790 (785)	2400
D		1600		3200

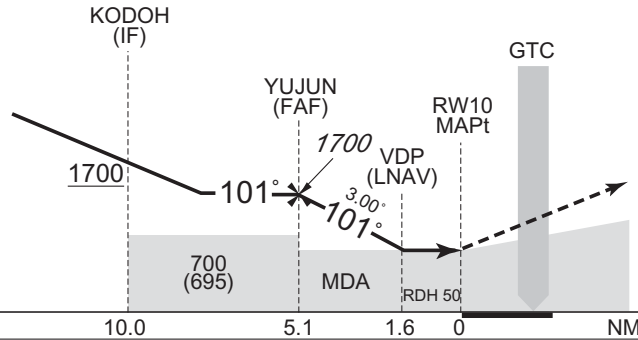
INSTRUMENT APPROACH CHART

RJSN / NIIGATA — RNP RWY10

NIIGATA APP	RNP APCH	NIIGATA TOWER	RADAR AVBL
121.4		118.0 – 126.2	ATIS 128.45



NM To Next Fix	FAF	5	4	3	2	MAPt
ALT (3.0˚ APCH Path)	1700	1670	1352	1034	715	–



MISSED APPROACH

Turn left, climb to 3000FT to INAHO on track 031˚ and hold. Contact NIIGATA APP.

(For using VORTAC)
Turn left, climb to 3000FT via GTC R027 to INAHO and hold. Contact NIIGATA APP.

MINIMA THR elev. 29 AD elev. 5

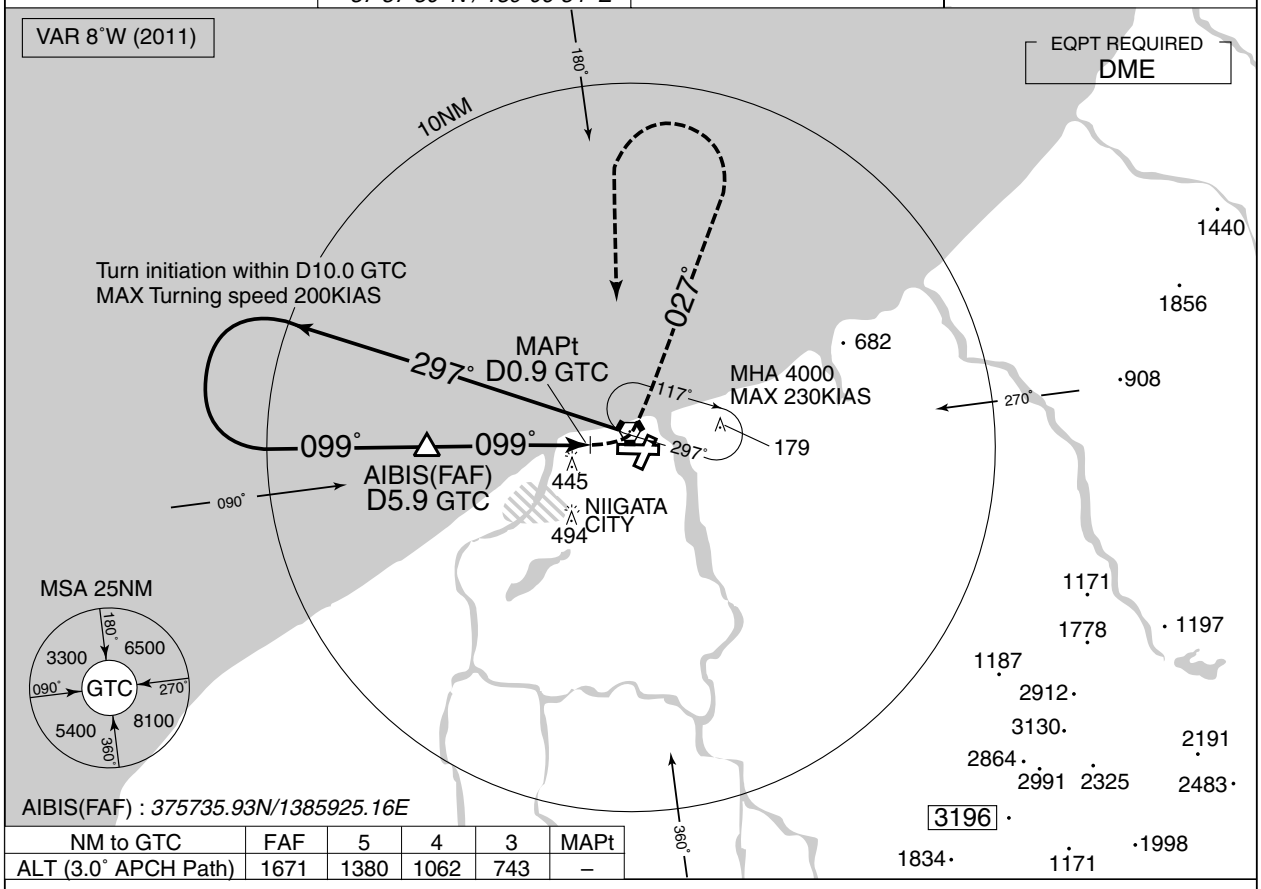
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	580 (551)	1400	580 (575)	1400	710 (705)	1600
B		1500		1500		
C		1600		1600	790 (785)	2400
D		1800		1800		3200

CHANGE:PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJSN / NIIGATA VOR RWY10

NIIGATA APP	NIIGATA VORTAC	NIIGATA TOWER	RADAR AVAILABLE
121.4	115.5 GTC CH–102X *37°57′30″N / 139°06′54″E*	118.0 – 126.2	ATIS 128.45

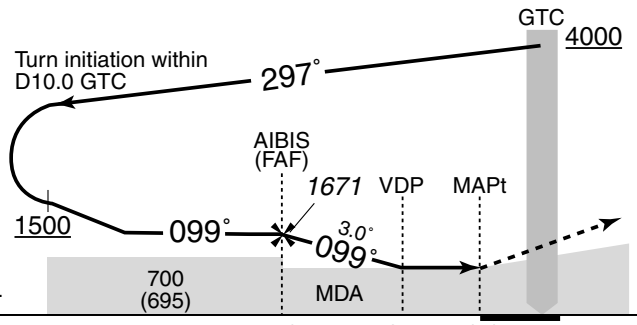


NM to GTC	FAF	5	4	3	MAPt
ALT (3.0° APCH Path)	1671	1380	1062	743	–

MISSED APPROACH

Turn left, climb to 2000FT via GTC R027, turn left, direct to GTC VORTAC and hold at 4000FT.
Contact NIIGATA APP.

Timing not authorized for defining the MAPt.

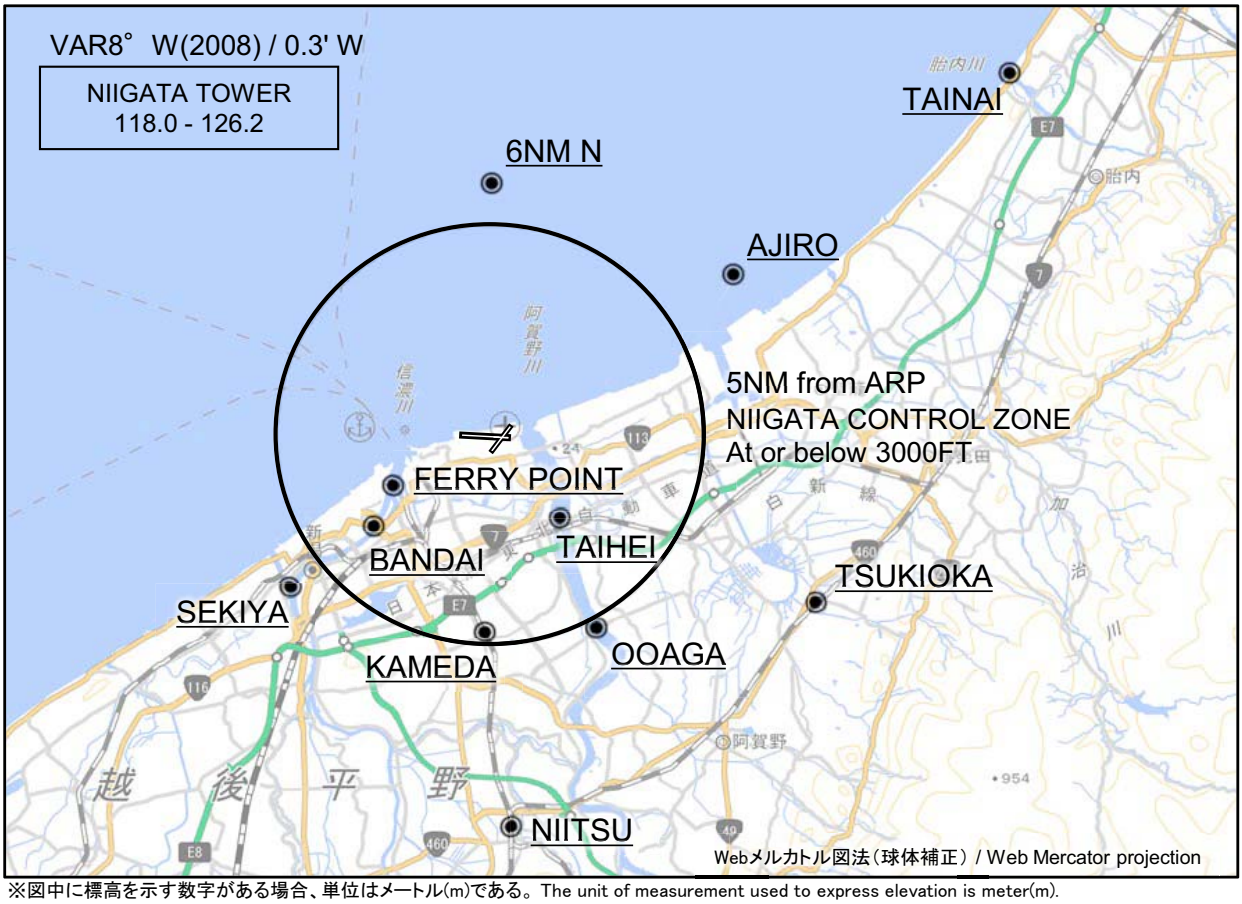


MINIMA THR elev. 29 AD elev. 5

CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	630 (625)	1400	720 (715)	1600
B		1500		
C		1600	790 (785)	2400
D		1800		3200

RJSN / NIIGATA

Visual REP



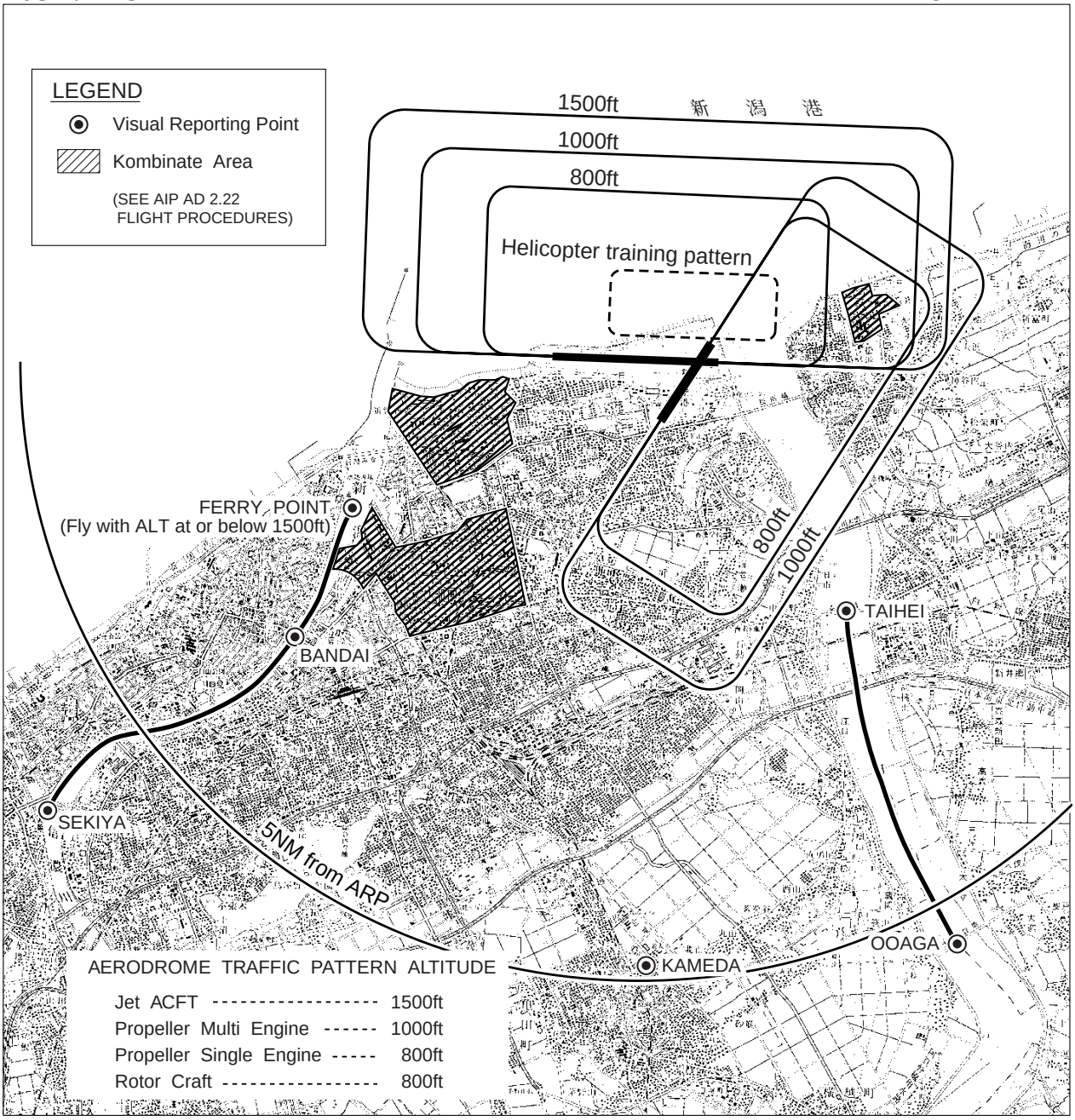
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

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)

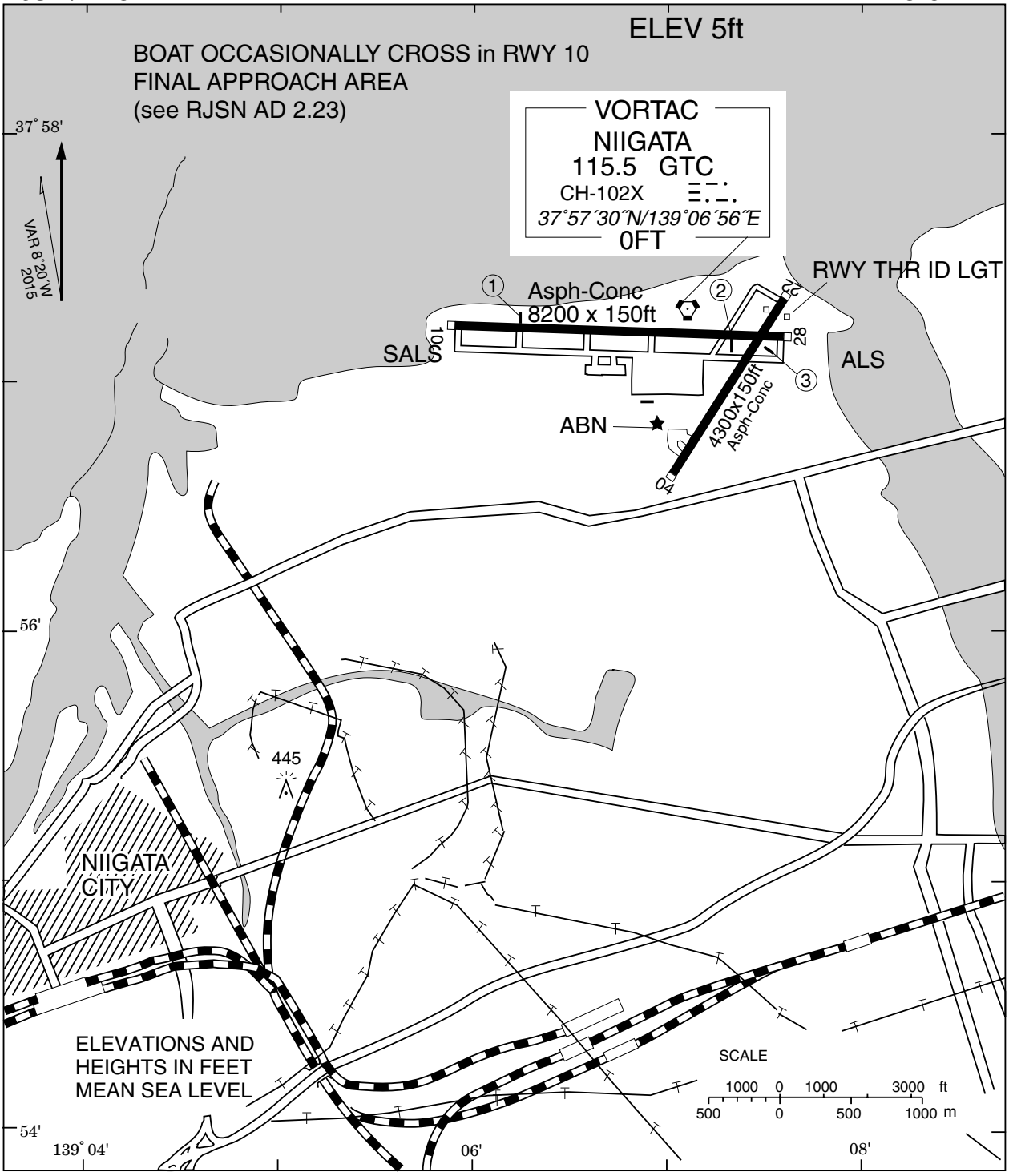
信濃ルート：関屋～万代～フェリーポイント間の信濃川に沿う飛行経路（回転翼航空機用）

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 insrtucted by Niigata tower. (except the case of IMC)

RJSN / NIIGATA LDG CHART



①RWY10:	②RWY28:	③RWY22:
Angle 3.0°	Angle 3.0°	Angle 3.0°
MEHT 22.6m (74ft)	MEHT 21.0m (69ft)	MEHT 18.6m (61ft)
541m inside fm THR	482m inside fm THR	361m inside fm THR

RJSN / NIIGATA Minimum Vectoring Altitude CHART