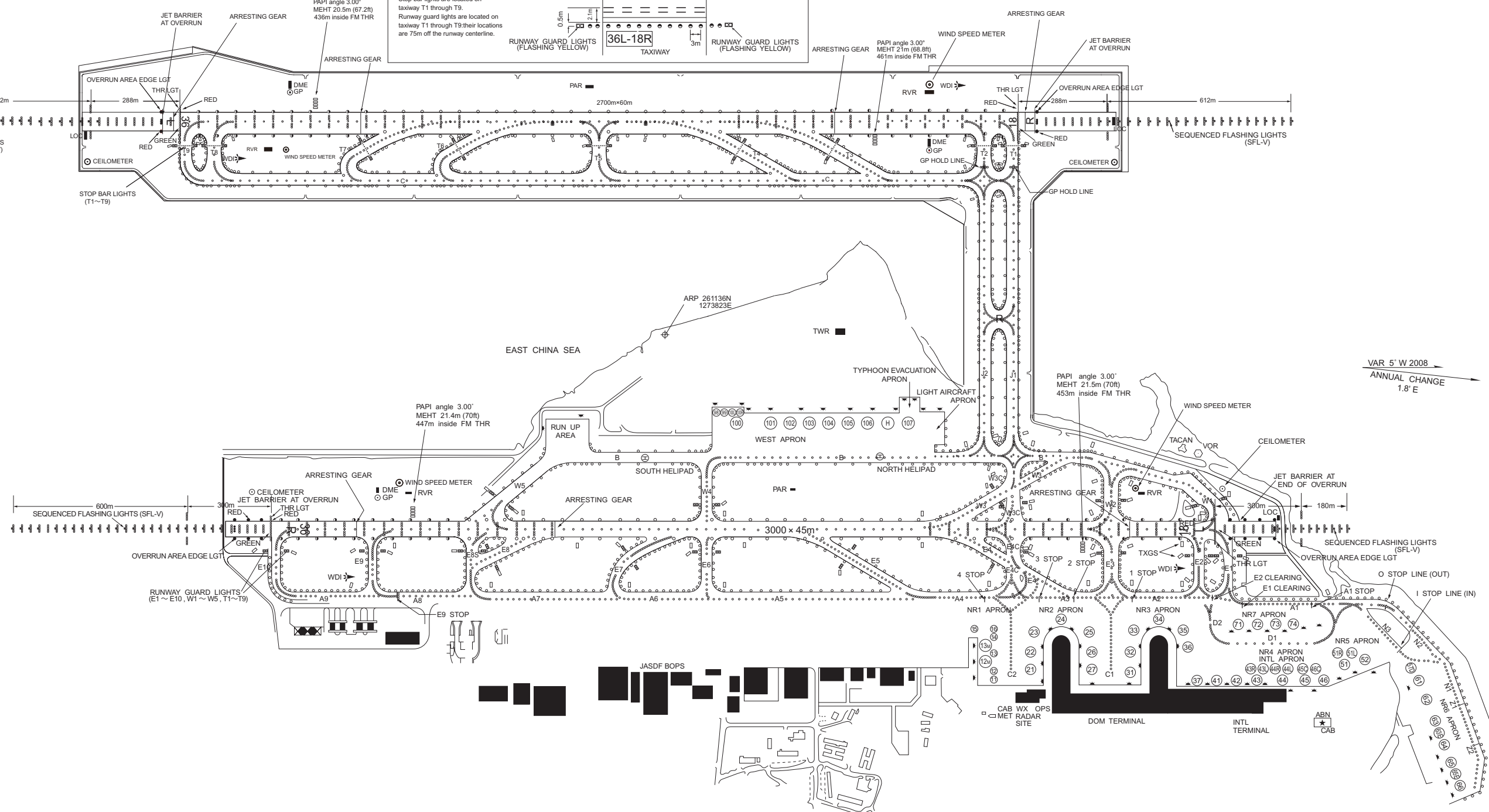
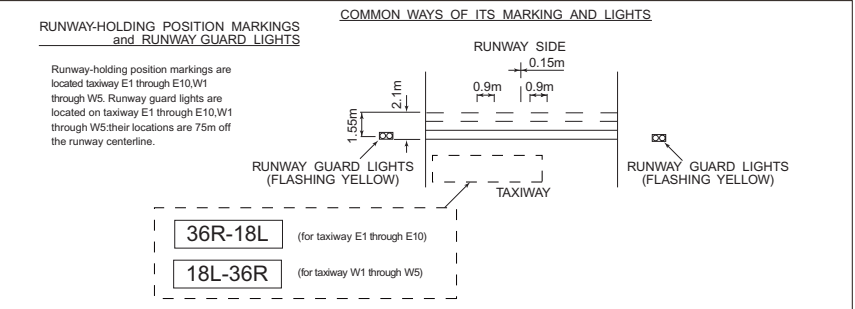


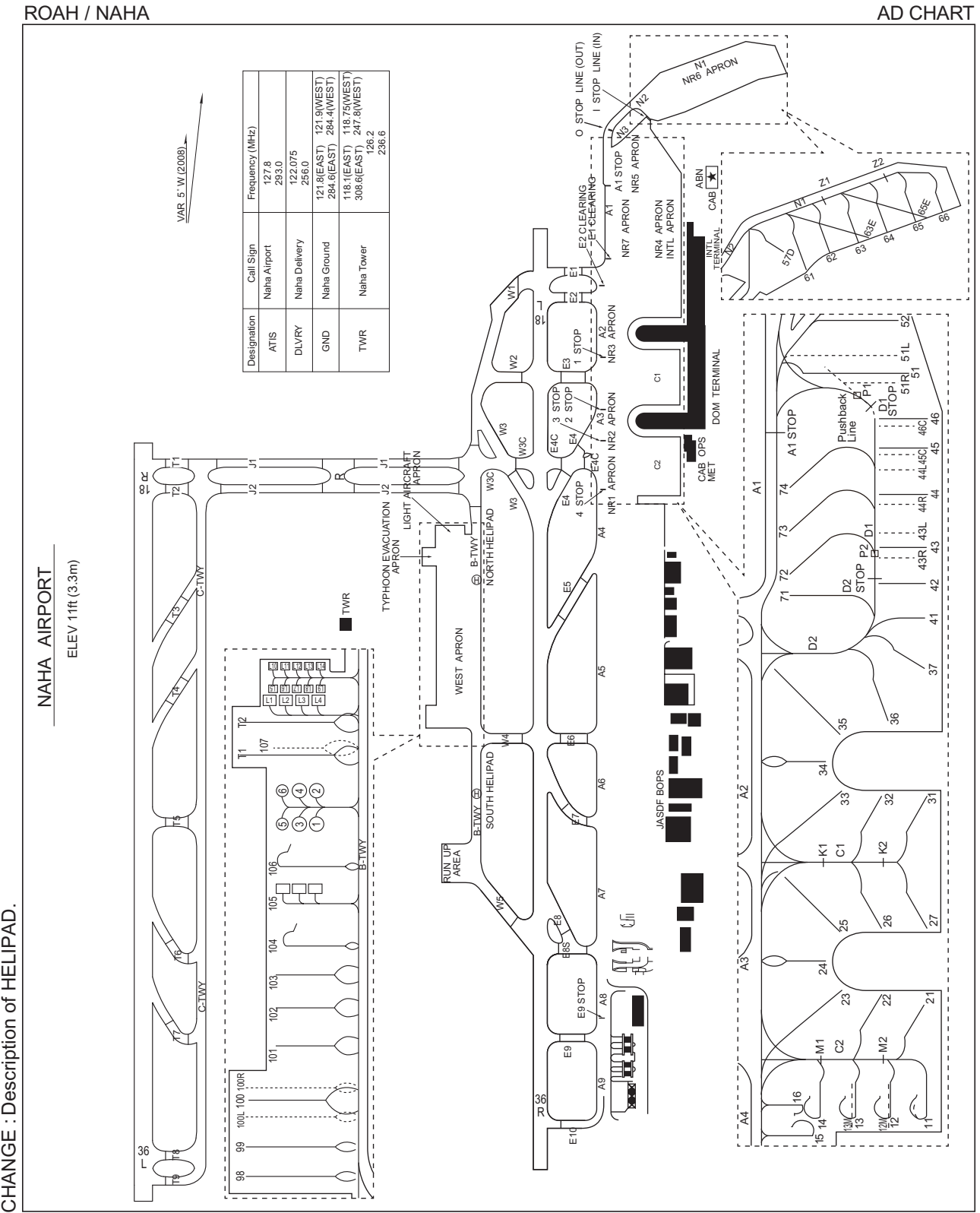
AERODROME CHART

NAHA AIRPORT  
ELEV 11ft (3.3m)



CHANGE : Description of HELIPAD.



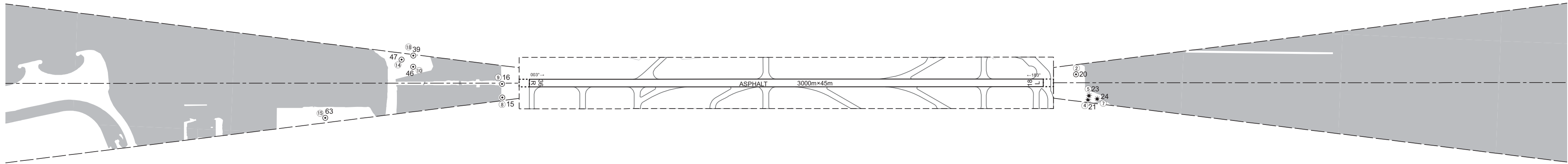


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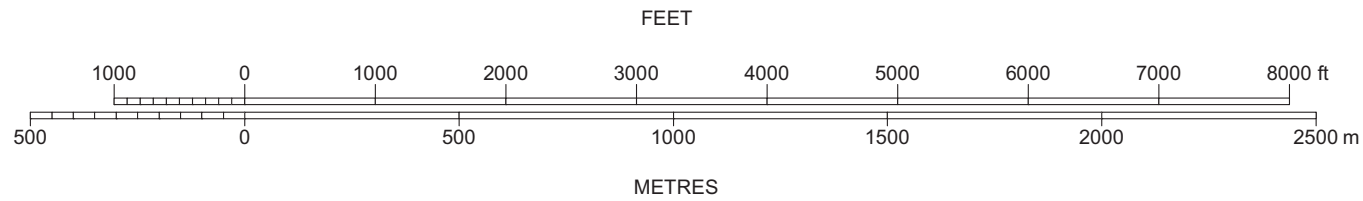
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 6°W - FEB 2023



HORIZONTAL SCALE



LEGEND		AMENDMENT RECORD		
①	IDENTIFICATION NUMBER	Nr	DATE	ENTERED BY
⊙	POLE, TOWER, SPIRE, ANTENNA, ETC			
✱	TREE			
⋯	RAILROAD			
⋯	TRANSMISSION LINE OR OVERHEAD CABLE			
△	TRIANGULATION POINT			
★	AERONAUTICAL GROUND LIGHT			
■	BUILDING OR LARGE STRUCTURE			
⋯	CONTOURS(1)			
✱	OBSTRUCTION LIGHT			
⋯	LEVEE			
⋯	RIVER			

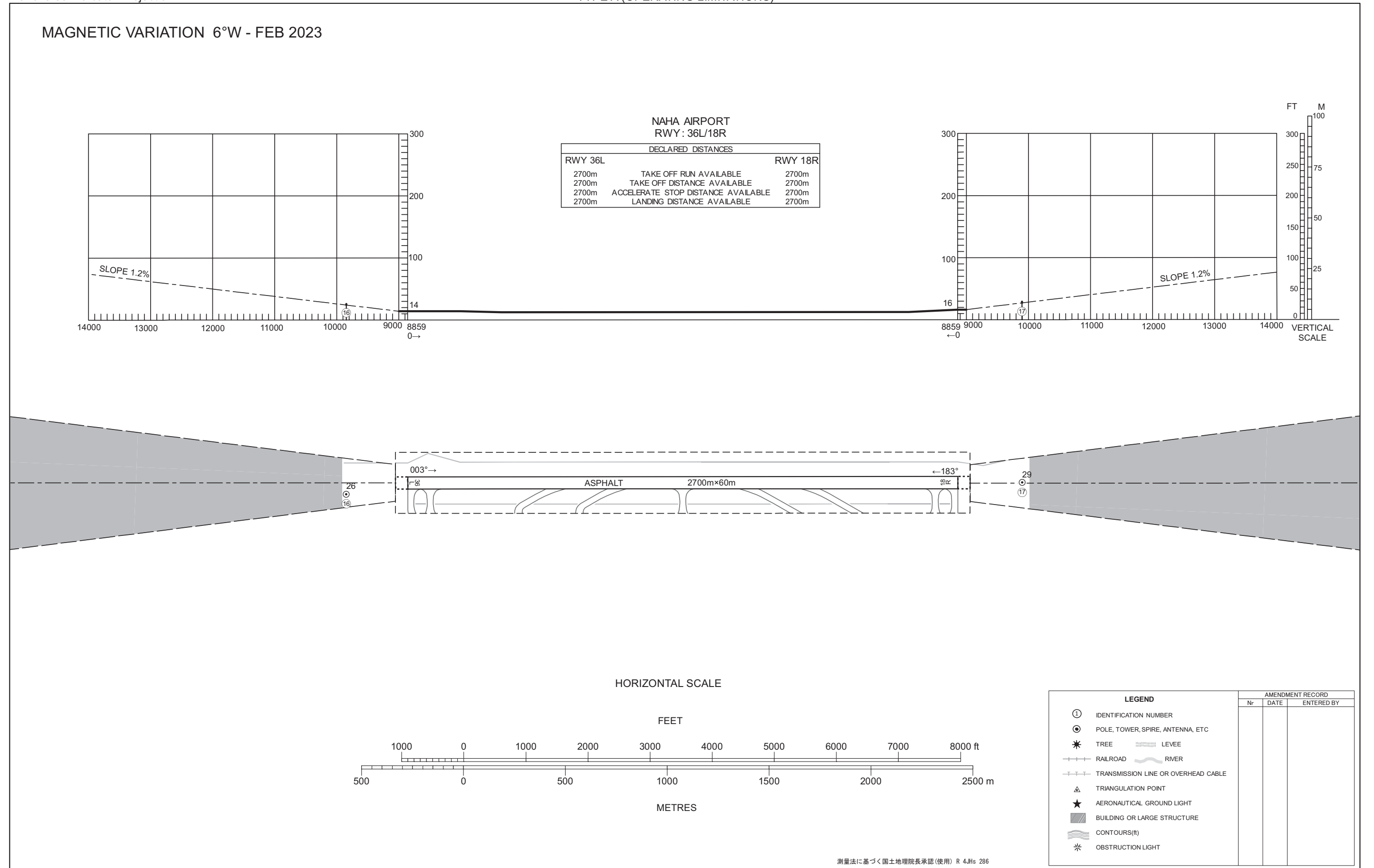
測量法に基づく国土地理院長承認 (使用) R 4JHis 286

CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

# AERODROME OBSTACLE CHART-ICAO

## TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.





STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/ NAHA

SID

NAHA NORTH FOUR DEPARTURE

RWY18L/18R: (Not established)  
RWY36R : Climb RWY HDG to NHC 2.4DME,...  
RWY36L : Climb RWY HDG to 500FT,...  
...turn left, via NHC R341 to EISAR.

Note RWY36R/36L: 5.0% climb gradient required up to 500FT.

SCUBA TRANSITION

From over EISAR, via NHC R341 to 24.1DME, turn right to intercept NHC R344 to SCUBA.  
Cross SCUBA at or above 4000FT.

LAVON ONE DEPARTURE

RWY18L : Climb RWY HDG to NHC 4.7DME, turn right, via NHC R196...  
RWY18R : Climb RWY HDG to 600FT, turn right, via NHC R211...  
... to intercept and proceed via NHC 15.0DME clockwise ARC to LAVON.

RWY36R : Climb RWY HDG to NHC 2.4DME, turn left, via NHC R341...  
RWY36L : Climb RWY HDG to 500FT, turn left, via NHC R308...  
...to intercept and proceed via NHC 15.0DME counterclockwise ARC to LAVON.

Note RWY36R/36L: 5.0% climb gradient required up to 500FT.

OLVAL ONE DEPARTURE

RWY18L : Climb RWY HDG to NHC 4.7DME, turn right, via NHC R196...  
RWY18R : Climb RWY HDG to 600FT, turn right, via NHC R211...  
... to intercept and proceed via NHC 15.0DME clockwise ARC to OLVAL.

RWY36R : Climb RWY HDG to NHC 2.4DME, turn left, via NHC R341...  
RWY36L : Climb RWY HDG to 500FT, turn left, via NHC R308...  
...to intercept and proceed via NHC 15.0DME counterclockwise ARC to OLVAL.

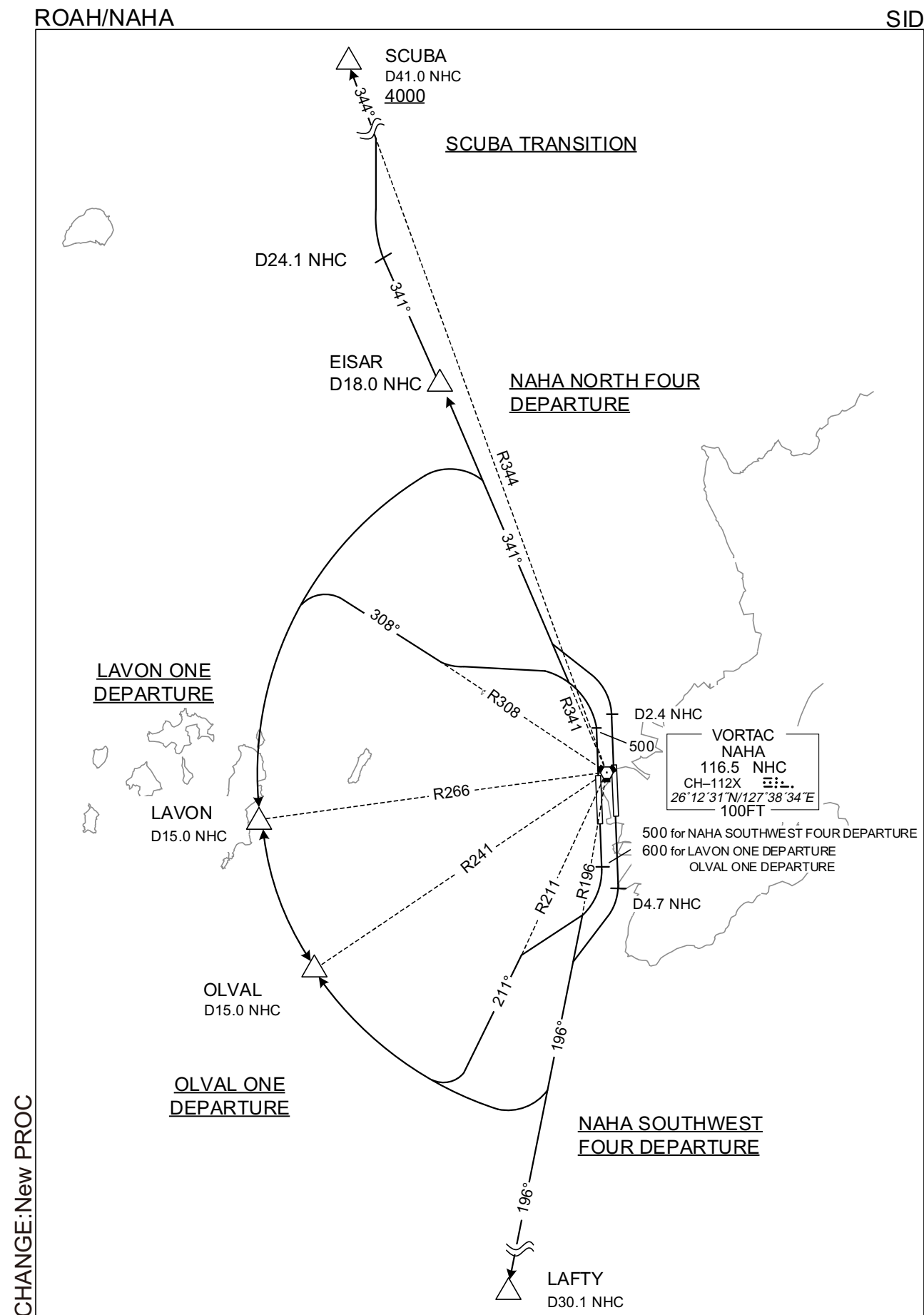
Note RWY36R/36L: 5.0% climb gradient required up to 500FT.

NAHA SOUTHWEST FOUR DEPARTURE

RWY18L : Climb RWY HDG to NHC 4.7DME,...  
RWY18R : Climb RWY HDG to 500FT,...  
... turn right, via NHC R196 to LAFTY.  
RWY36R/36L: (Not established)

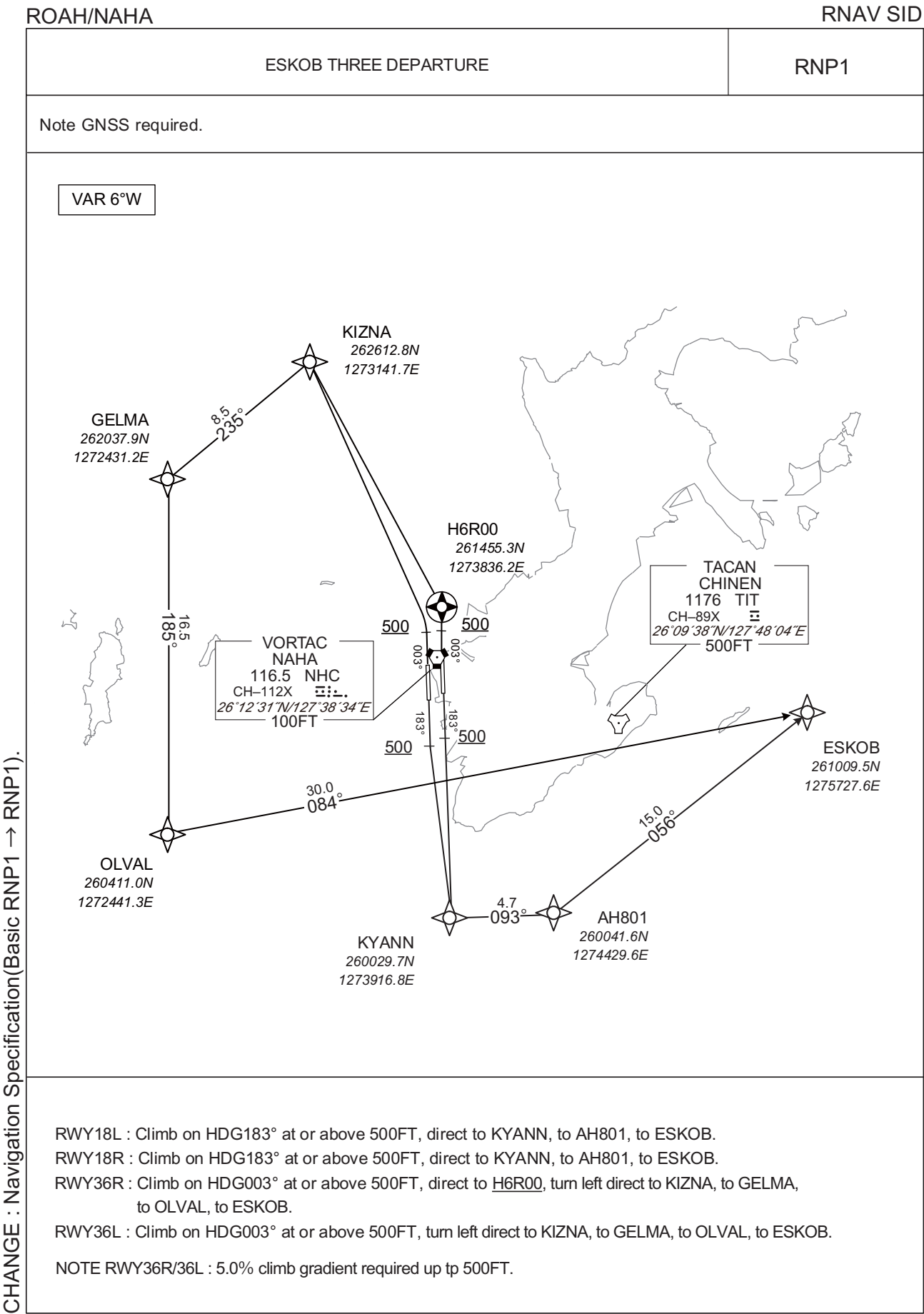
CHANGE:New PROC

## STANDARD DEPARTURE CHART-INSTRUMENT





STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART-INSTRUMENT

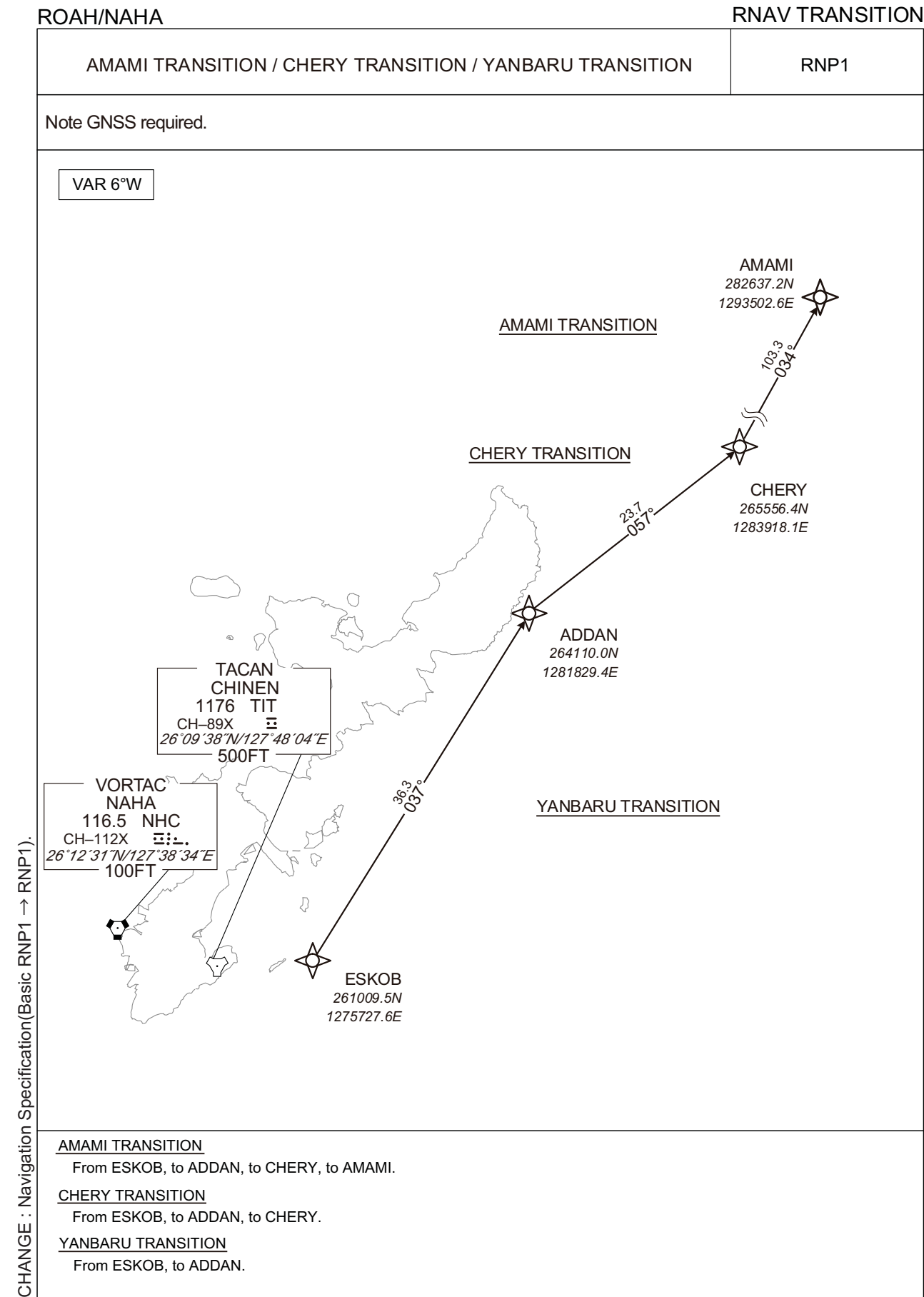
ROAH/ NAHA

RNAV SID

ESKOB THREE DEPARTURE											
RWY18L											
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	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	RNP1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	RNP1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	RNP1
RWY18R											
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	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	RNP1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	RNP1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	RNP1
RWY36R											
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	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
005	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	RNP1
006	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	RNP1
RWY36L											
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	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
004	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	RNP1
005	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV TRANSITION

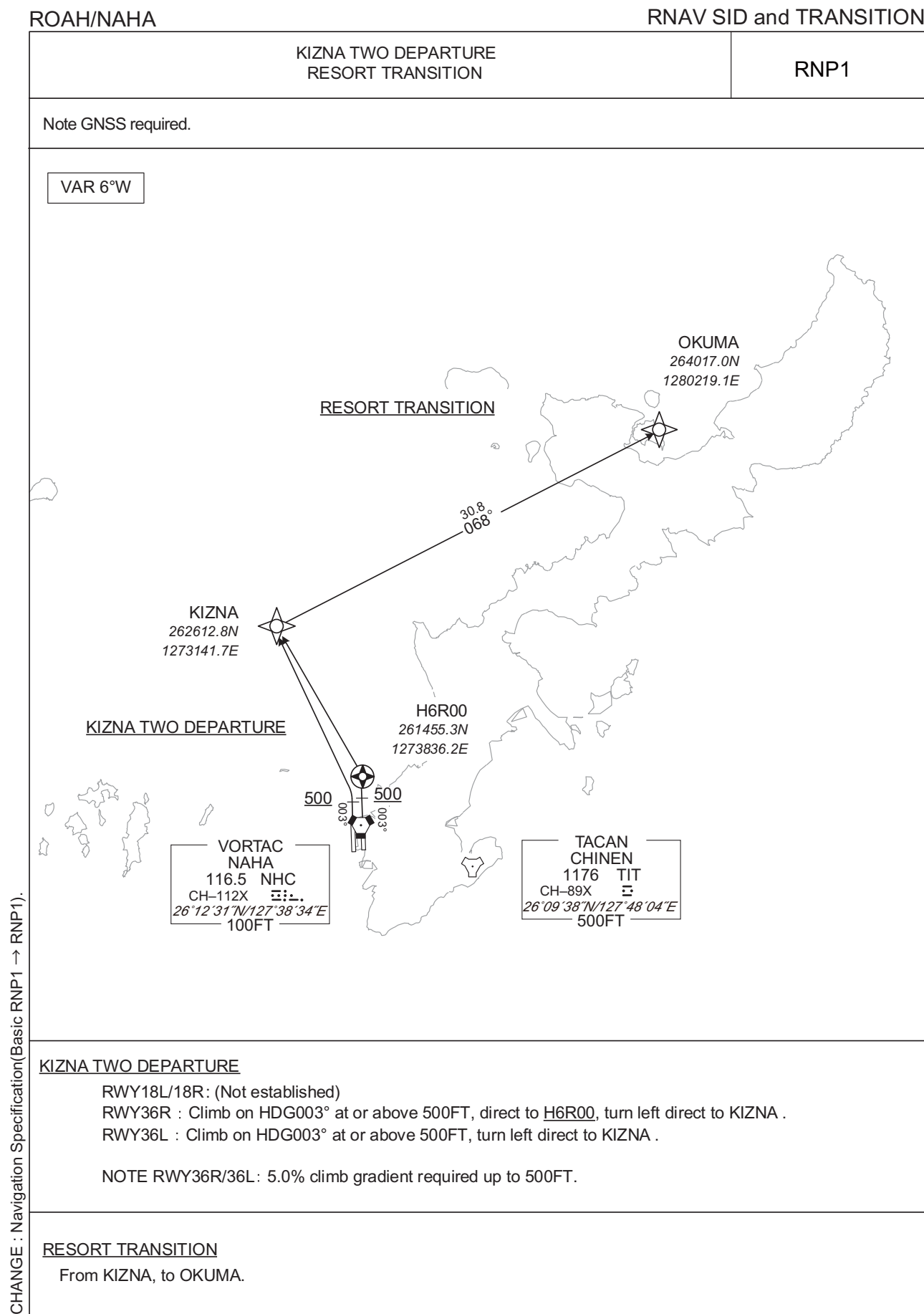
AMAMI TRANSITION											
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ESKOB	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNP1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	RNP1
004	TF	AMAMI	-	034 (028.3)	-5.6	103.3	-	-	-	-	RNP1

CHERY 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	ESKOB	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNP1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	RNP1

YANBARU 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	ESKOB	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/ NAHA

RNAV SID and TRANSITION

KIZNA TWO DEPARTURE

RWY36R

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	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1

RWY36L

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	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1

RESORT 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	KIZNA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	OKUMA	-	068 (062.7)	-5.6	30.8	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).



STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

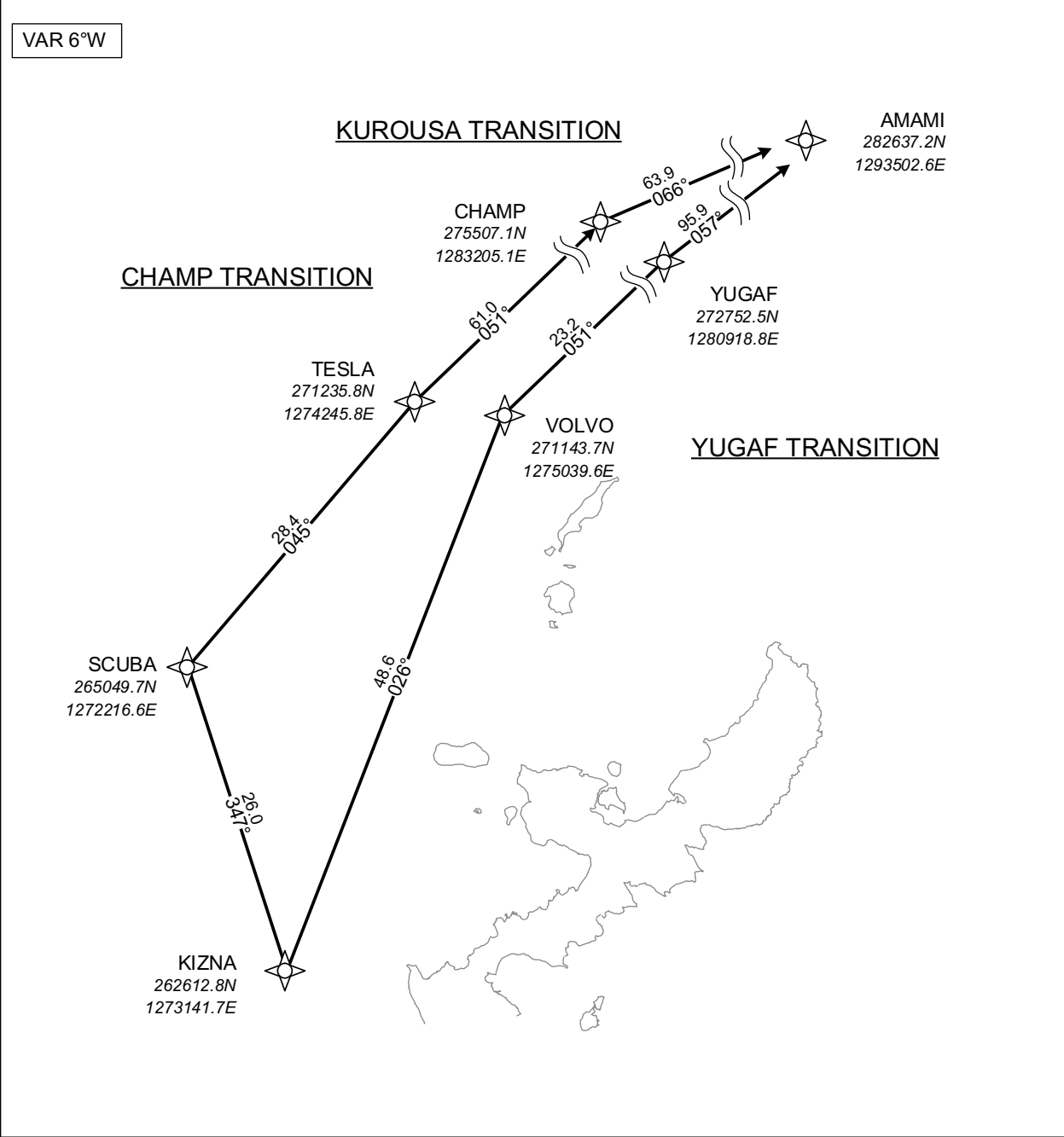
RNAV TRANSITION

KUROUSA TRANSITION CHAMP TRANSITION YUGAF TRANSITION	RNP1
--	------

Note GNSS required.

VAR 6°W

CHANGE : Navigation Specification(Basic RNP1 → RNP1).



- KUROUSA TRANSITION  
From KIZNA, to SCUBA, to TESLA, to CHAMP, to AMAMI.
- CHAMP TRANSITION  
From KIZNA, to SCUBA, to TESLA, to CHAMP.
- YUGAF TRANSITION  
From KIZNA, to VOLVO, to YUGAF, to AMAMI.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV TRANSITION

KUROUSA 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	KIZNA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	RNP1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	RNP1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	RNP1
005	TF	AMAMI	-	066 (060.2)	-5.6	63.9	-	-	-	-	RNP1

CHAMP 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	KIZNA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	RNP1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	RNP1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	RNP1

YUGAF 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	KIZNA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	VOLVO	-	026 (020.3)	-5.6	48.6	-	-	-	-	RNP1
003	TF	YUGAF	-	051 (045.7)	-5.6	23.2	-	-	-	-	RNP1
004	TF	AMAMI	-	057 (051.9)	-5.6	95.9	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## ROAH / NAHA

## RNAV SID

## DORIS TWO DEPARTURE / GANJU TWO DEPARTURE

## RNP1

**VAR 6°W**

**VORTAC KUMEJIMA**  
116.7 KXC  
CH-114X  
26°22'19"N/126°43'19"E  
100FT

**DORIS TWO DEPARTURE**

**DORIS**  
260430.5N  
1264153.3E

**TINTO**  
260732.7N  
1271013.2E

**VORTAC NAHA**  
116.5 NHC  
CH-112X  
26°12'31"N/127°38'34"E  
100FT

**GANJU TWO DEPARTURE**

**GANJU**  
255220.0N  
1264324.0E

**KARII**  
254841.4N  
1272309.1E

**VIGER**  
255743.9N  
1273526.9E

**GELMA**  
262037.9N  
1272431.2E

**KIZNA**  
262612.8N  
1273141.7E

**H6R00**  
261455.3N  
1273836.2E

**H8L00**  
260745.9N  
1273856.3E

**500**  
003°  
183°  
500

**4000**  
**3000**  
**2000**  
**1000**  
AD elev.11  
Contour Intervals

5 0 5 10 15 20  
2 0 2 4 6 8 10 12  
KM  
NM

RWY18L : Climb on HDG183° at or above 500FT, direct to H8L00, turn right direct to VIGER, to DORIS.  
RWY18R : Climb on HDG183° at or above 500FT, turn right direct to VIGER, to DORIS.  
RWY36R : Climb on HDG003° at or above 500FT, direct to H6R00, turn left direct to KIZNA, to GELMA,  
to TINTO, to DORIS.  
RWY36L : Climb on HDG003° at or above 500FT, turn left direct to KIZNA, to GELMA, to TINTO,  
to DORIS.

## GANJU TWO DEPARTURE

RWY18L : Climb on HDG183° at or above 500FT, direct to H8L00, turn right direct to VIGER, to KARII, to GANJU.

RWY18R : Climb on HDG183° at or above 500FT, turn right direct to VIGER, to KARII, to GANJU.

RWY36R : Climb on HDG003° at or above 500FT, direct to H6R00, turn left direct to KIZNA, to GELMA, to TINTO, to GANJU.

RWY36L : Climb on HDG003° at or above 500FT, turn left direct to KIZNA, to GELMA, to TINTO, to GANJU.

Note RWY36R/36L : 5.0% climb gradient required up to 500FT.

**Civil Aviation Bureau, Japan (EFF:16 MAY 2024)**

## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

DORIS TWO DEPARTURE

## RWY18L

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	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNP1
004	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	RNP1

## RWY18R

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	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNP1
003	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	RNP1

## RWY36R

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	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNP1
006	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	RNP1

## RWY36L

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	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNP1
005	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

GANJU TWO DEPARTURERWY18L

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	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNP1
004	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	RNP1
005	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	RNP1

RWY18R

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	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNP1
003	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	RNP1
004	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	RNP1

RWY36R

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	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNP1
006	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	RNP1

RWY36L

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	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNP1
005	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

STAR

SCUBA ARRIVAL

From over SCUBA, via NHC R344 to 28.1 DME, turn right to intercept and proceed via NHC R341 to EISAR.

Cross NHC R344/28.1DME at or above 3000FT, cross EISAR at or above 2000FT.

LAVON ARRIVAL

From over LAVON, via NHC 15.0DME counterclockwise ARC to VIGER.

Cross VIGER at or above 2000FT.

(When using NHC TACAN only)

From over LAVON at or above 5000FT, via NHC 15.0DME counterclockwise ARC to VIGER.

Cross VIGER at or above 4400FT.

LAFTY ARRIVAL

From over LAFTY, via NHC R196 to VIGER.

Cross VIGER at or above 2000FT.

(When using NHC TACAN only)

From over LAFTY, via NHC R196 to VIGER.

Cross VIGER at or above 4400FT.

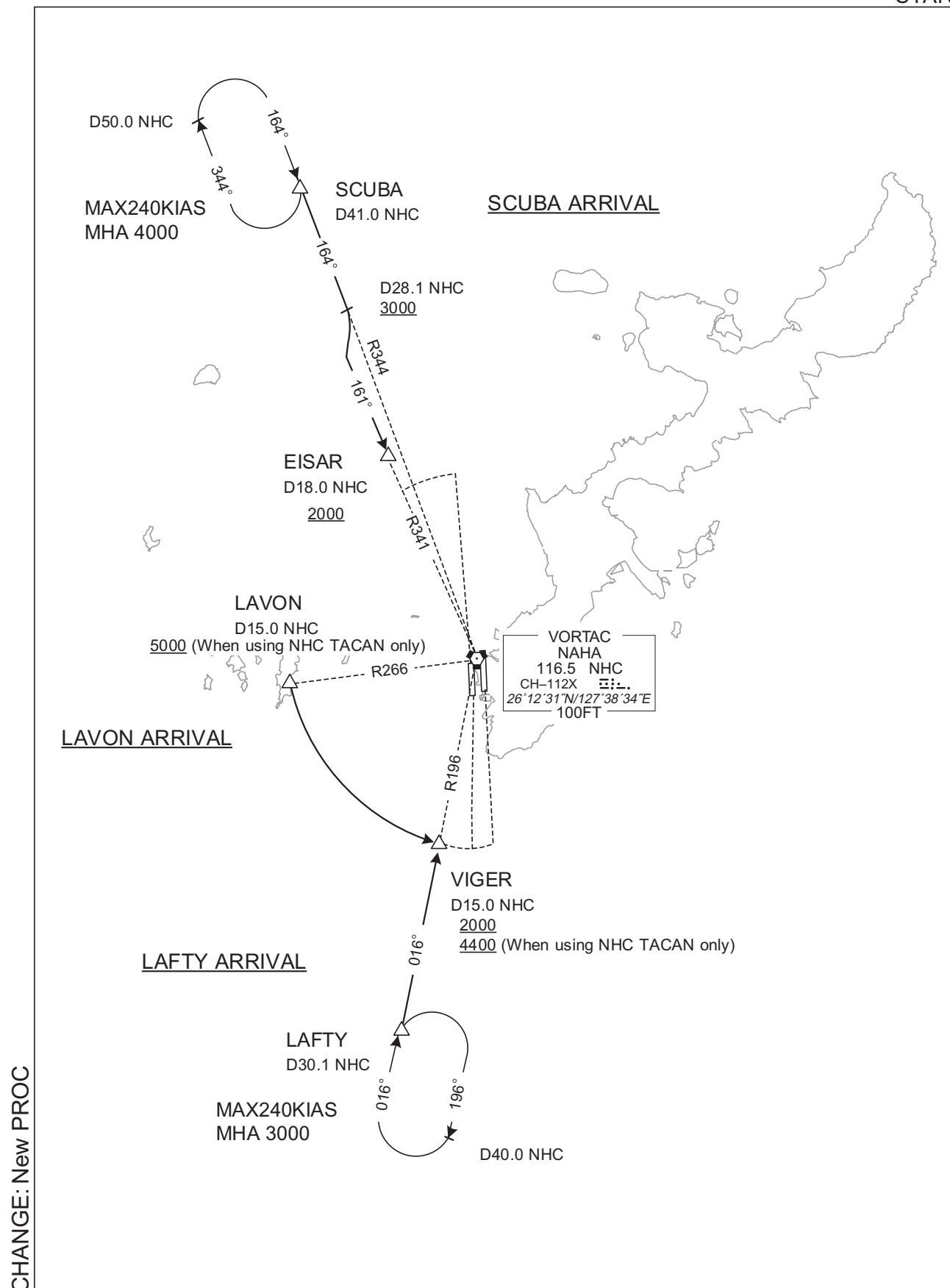
CHANGE: New PROC



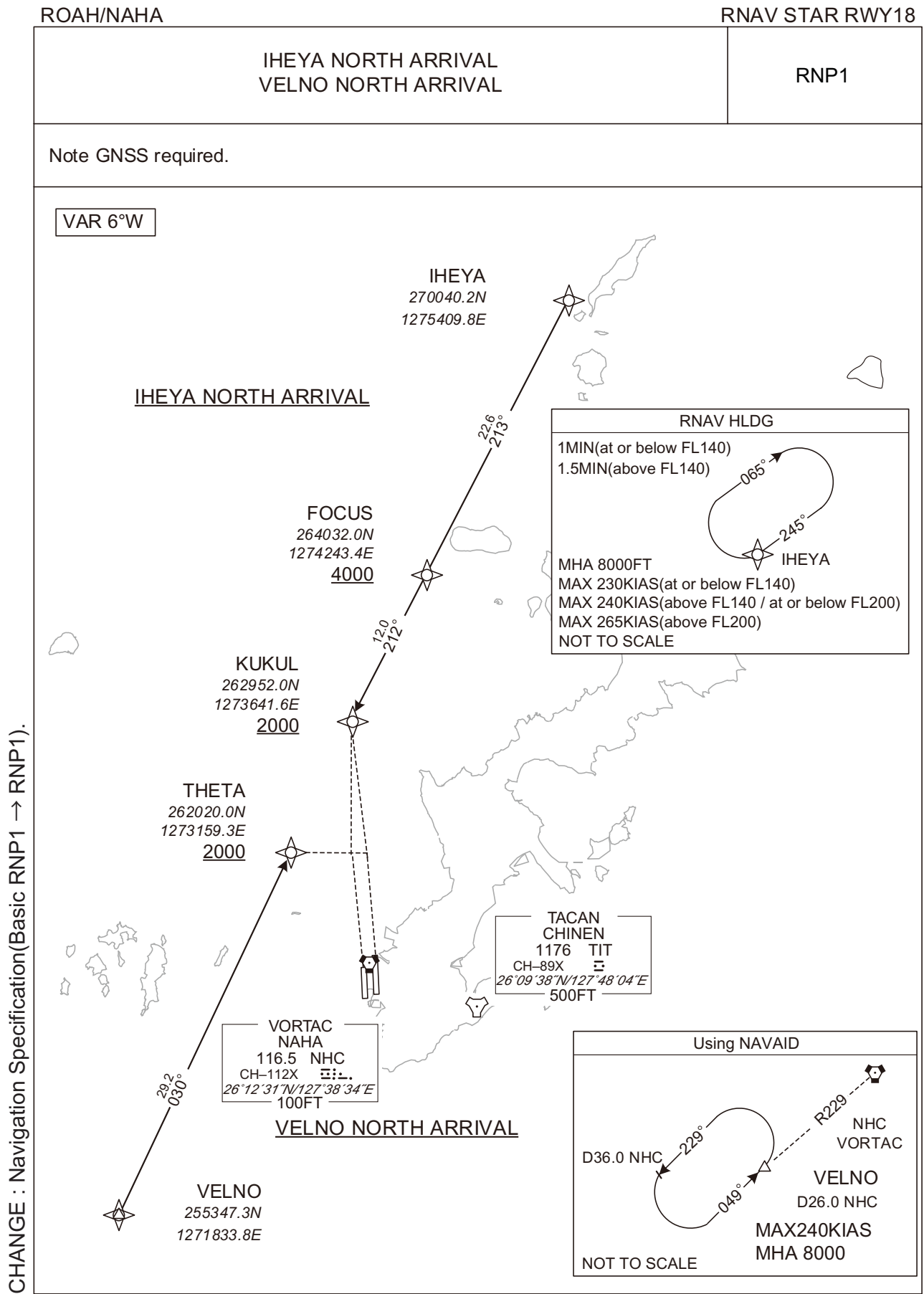
## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

STAR



STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

ROAH / NAHA

RNAV STAR RWY18

IHEYA NORTH ARRIVAL

From IHEYA, to FOCUS at or above 4000FT, to KUKUL at or above 2000FT.

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	IHEYA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	FOCUS	-	213 (206.9)	-5.6	22.6	-	+4000	-	-	RNP1
003	TF	KUKUL	-	212 (206.8)	-5.6	12.0	-	+2000	-	-	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	IHEYA	245 (239.1)	-5.8	1.0 (-14000) 1.5 (+14001)	R	8000	-	-230 (-14000) -240 (14001-20000) -265 (+20001)	RNP1

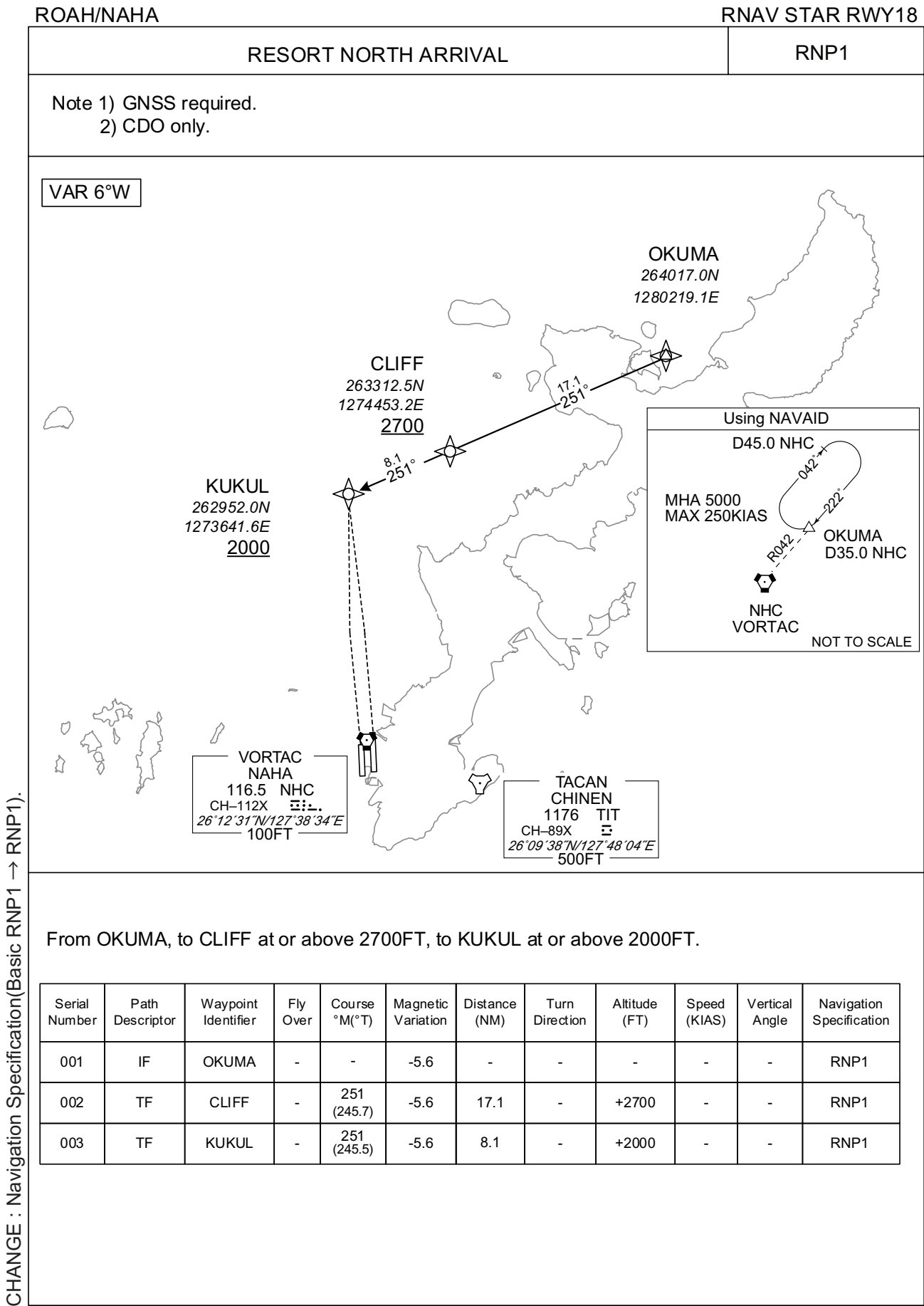
VELNO NORTH ARRIVAL

From VELNO, to THETA at or above 2000FT.

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	VELNO	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	THETA	-	030 (024.4)	-5.6	29.2	-	+2000	-	-	RNP1

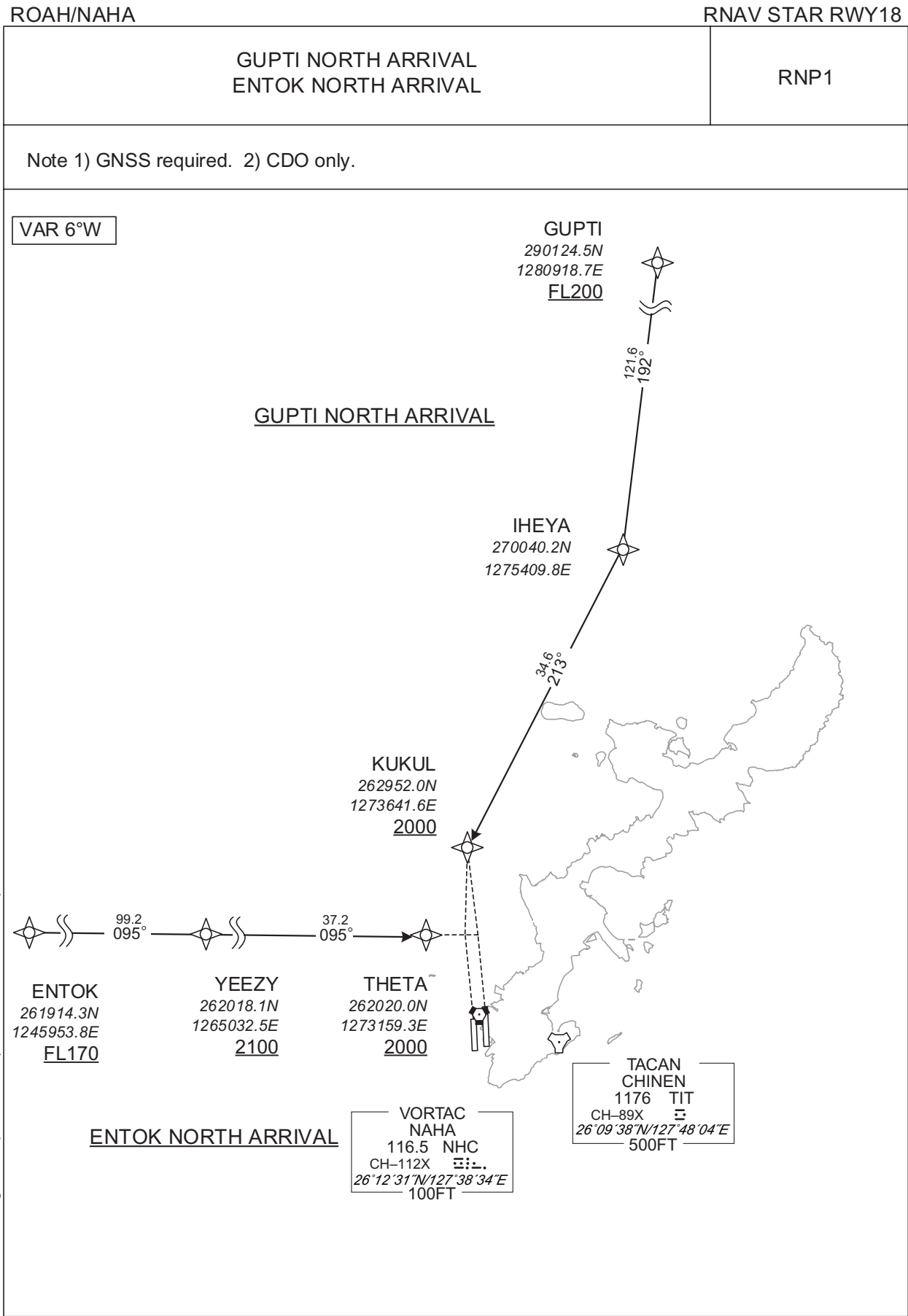
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

ROAH / NAHA

RNAV STAR RWY18

<div><div>GUPTI NORTH ARRIVAL</div><div>From GUPTI at or above FL200, to IHEYA, to KUKUL at or above 2000FT.</div><table><tr><th>Serial Number</th><th>Path Descriptor</th><th>Waypoint Identifier</th><th>Fly Over</th><th>Course °M(°T)</th><th>Magnetic Variation</th><th>Distance (NM)</th><th>Turn Direction</th><th>Altitude (FT)</th><th>Speed (KIAS)</th><th>Vertical Angle</th><th>Navigation Specification</th></tr><tr><td>001</td><td>IF</td><td>GUPTI</td><td>-</td><td>-</td><td>-5.6</td><td>-</td><td>-</td><td>+FL200</td><td>-</td><td>-</td><td>RNP1</td></tr><tr><td>002</td><td>TF</td><td>IHEYA</td><td>-</td><td>192 (186.4)</td><td>-5.6</td><td>121.6</td><td>-</td><td>-</td><td>-</td><td>-</td><td>RNP1</td></tr><tr><td>003</td><td>TF</td><td>KUKUL</td><td>-</td><td>213 (206.9)</td><td>-5.6</td><td>34.6</td><td>-</td><td>+2000</td><td>-</td><td>-</td><td>RNP1</td></tr></table></div>												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	GUPTI	-	-	-5.6	-	-	+FL200	-	-	RNP1	002	TF	IHEYA	-	192 (186.4)	-5.6	121.6	-	-	-	-	RNP1	003	TF	KUKUL	-	213 (206.9)	-5.6	34.6	-	+2000	-	-	RNP1
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	GUPTI	-	-	-5.6	-	-	+FL200	-	-	RNP1																																																
002	TF	IHEYA	-	192 (186.4)	-5.6	121.6	-	-	-	-	RNP1																																																
003	TF	KUKUL	-	213 (206.9)	-5.6	34.6	-	+2000	-	-	RNP1																																																
<div><div>ENTOK NORTH ARRIVAL</div><div>From ENTOK at or above FL170, to YEEZY at or above 2100FT, to THETA at or above 2000FT.</div><table><tr><th>Serial Number</th><th>Path Descriptor</th><th>Waypoint Identifier</th><th>Fly Over</th><th>Course °M(°T)</th><th>Magnetic Variation</th><th>Distance (NM)</th><th>Turn Direction</th><th>Altitude (FT)</th><th>Speed (KIAS)</th><th>Vertical Angle</th><th>Navigation Specification</th></tr><tr><td>001</td><td>IF</td><td>ENTOK</td><td>-</td><td>-</td><td>-5.6</td><td>-</td><td>-</td><td>+FL170</td><td>-</td><td>-</td><td>RNP1</td></tr><tr><td>002</td><td>TF</td><td>YEEZY</td><td>-</td><td>095 (089.0)</td><td>-5.6</td><td>99.2</td><td>-</td><td>+2100</td><td>-</td><td>-</td><td>RNP1</td></tr><tr><td>003</td><td>TF</td><td>THETA</td><td>-</td><td>095 (089.8)</td><td>-5.6</td><td>37.2</td><td>-</td><td>+2000</td><td>-</td><td>-</td><td>RNP1</td></tr></table></div>												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	ENTOK	-	-	-5.6	-	-	+FL170	-	-	RNP1	002	TF	YEEZY	-	095 (089.0)	-5.6	99.2	-	+2100	-	-	RNP1	003	TF	THETA	-	095 (089.8)	-5.6	37.2	-	+2000	-	-	RNP1
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	ENTOK	-	-	-5.6	-	-	+FL170	-	-	RNP1																																																
002	TF	YEEZY	-	095 (089.0)	-5.6	99.2	-	+2100	-	-	RNP1																																																
003	TF	THETA	-	095 (089.8)	-5.6	37.2	-	+2000	-	-	RNP1																																																

CHANGE : Navigation Specification(Basic RNP1 → RNP1).



STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHARNAV STAR RWY36

IHEYA SOUTH ARRIVAL VELNO SOUTH ARRIVAL	RNP1
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Note GNSS required.

VAR 6°W

RNAV HLDG

1MIN(at or below FL140)  
1.5MIN(above FL140)

MHA 8000FT  
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140 / at or below FL200)  
MAX 265KIAS(above FL200)  
NOT TO SCALE

Using NAVAID

D36.0 NHC  
NHC VORTAC  
VELNO  
D26.0 NHC  
MAX240KIAS  
MHA 8000  
NOT TO SCALE

VORTAC  
NAHA  
116.5 NHC  
CH-112X  
26°12'31"N/127°38'34"E  
100FT

TACAN  
CHINEN  
1176 TIT  
CH-89X  
26°09'38"N/127°48'04"E  
500FT

VELNO SOUTH ARRIVAL

VELNO  
255347.3N  
1271833.8E

VIGER  
255743.9N  
1273526.9E  
2000

IHEYA  
270040.2N  
1275409.8E

IHEYA SOUTH ARRIVAL

HASA  
262334.1N  
1275516.0E  
11000

SEIFA  
260303.9N  
1274448.5E  
2000

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

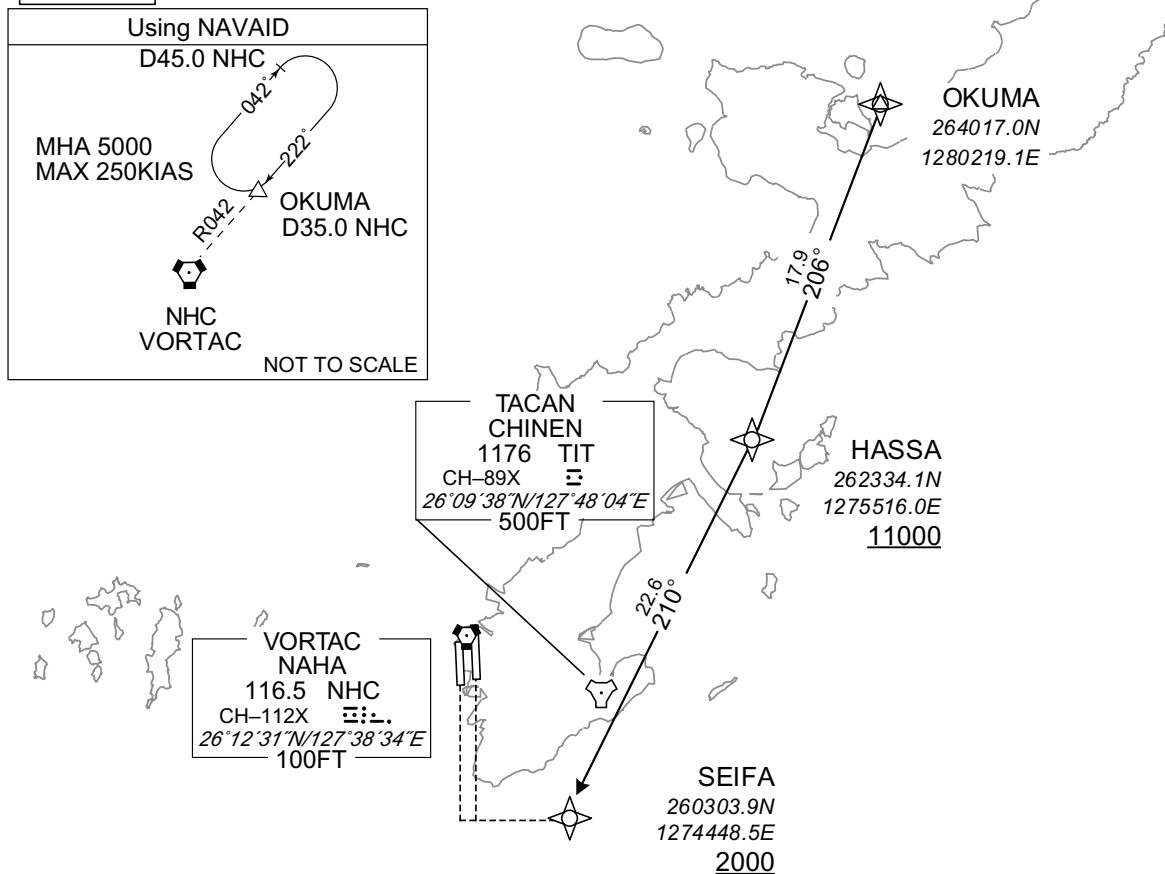


## ROAH/NAHA

RESORT SOUTH ARRIVAL

RNP1

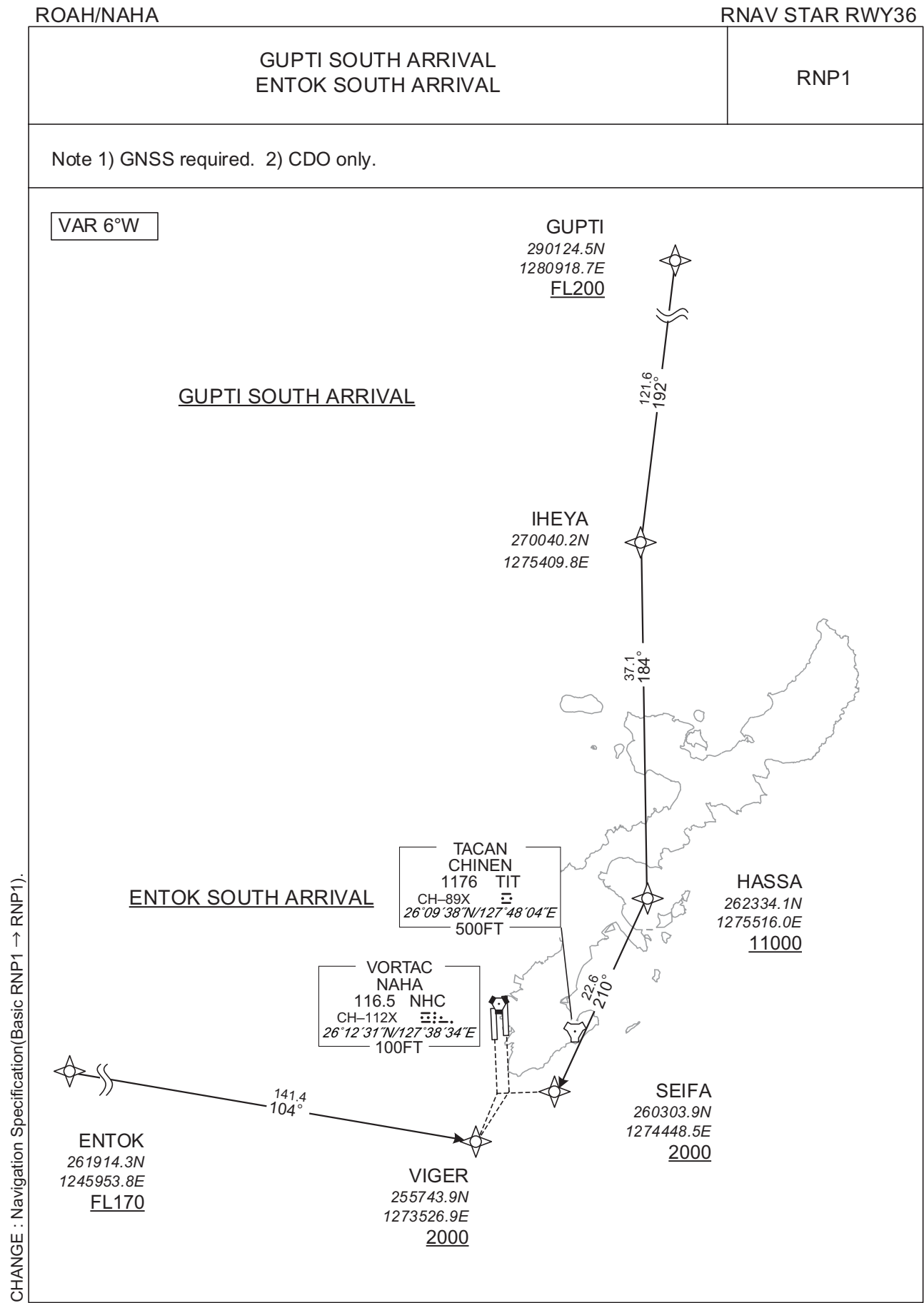
VAR 6°W



CHANGE : Navigation Specification(Basic RNP1  $\rightarrow$  RNP1).

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	OKUMA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	HASSA	-	206 (200.7)	-5.6	17.9	-	+11000	-	-	RNP1
003	TF	SEIFA	-	210 (204.6)	-5.6	22.6	-	+2000	-	-	RNP1

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

ROAH / NAHA

RNAV STAR RWY36

GUPTI SOUTH ARRIVAL  
From GUPTI at or above FL200, to IHEYA, to HASSA at or above 11000FT, to SEIFA at or above 2000FT.

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	GUPTI	-	-	-5.6	-	-	+FL200	-	-	RNP1
002	TF	IHEYA	-	192 (186.4)	-5.6	121.6	-	-	-	-	RNP1
003	TF	HASSA	-	184 (178.5)	-5.6	37.1	-	+11000	-	-	RNP1
004	TF	SEIFA	-	210 (204.6)	-5.6	22.6	-	+2000	-	-	RNP1

ENTOK SOUTH ARRIVAL  
From ENTOK at or above FL170, to VIGER at or above 2000FT.

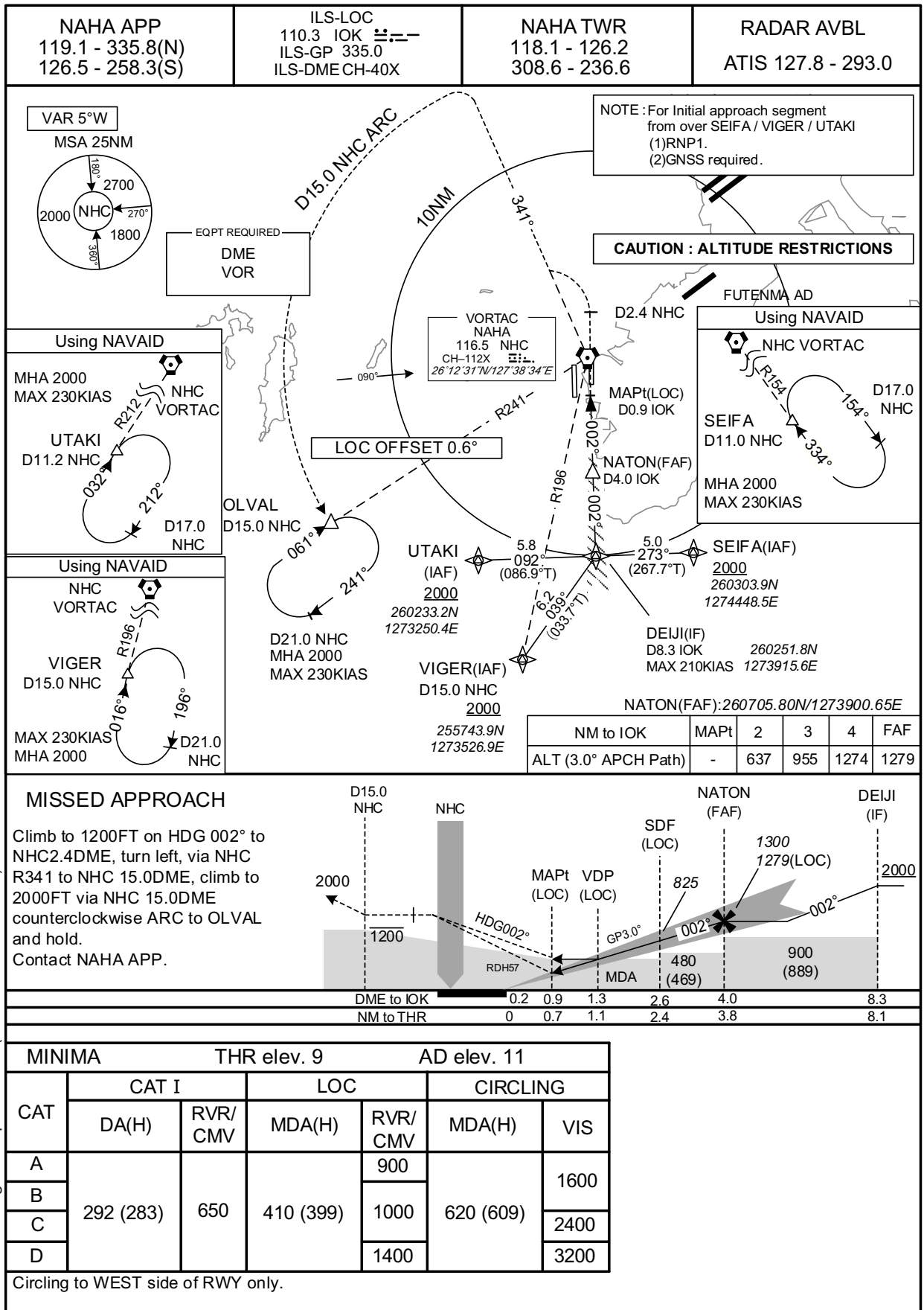
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ENTOK	-	-	-5.6	-	-	+FL170	-	-	RNP1
002	TF	VIGER	-	104 (098.2)	-5.6	141.4	-	+2000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## INSTRUMENT APPROACH CHART

## ROAH / NAHA

## ILS Z or LOC Z RWY36R

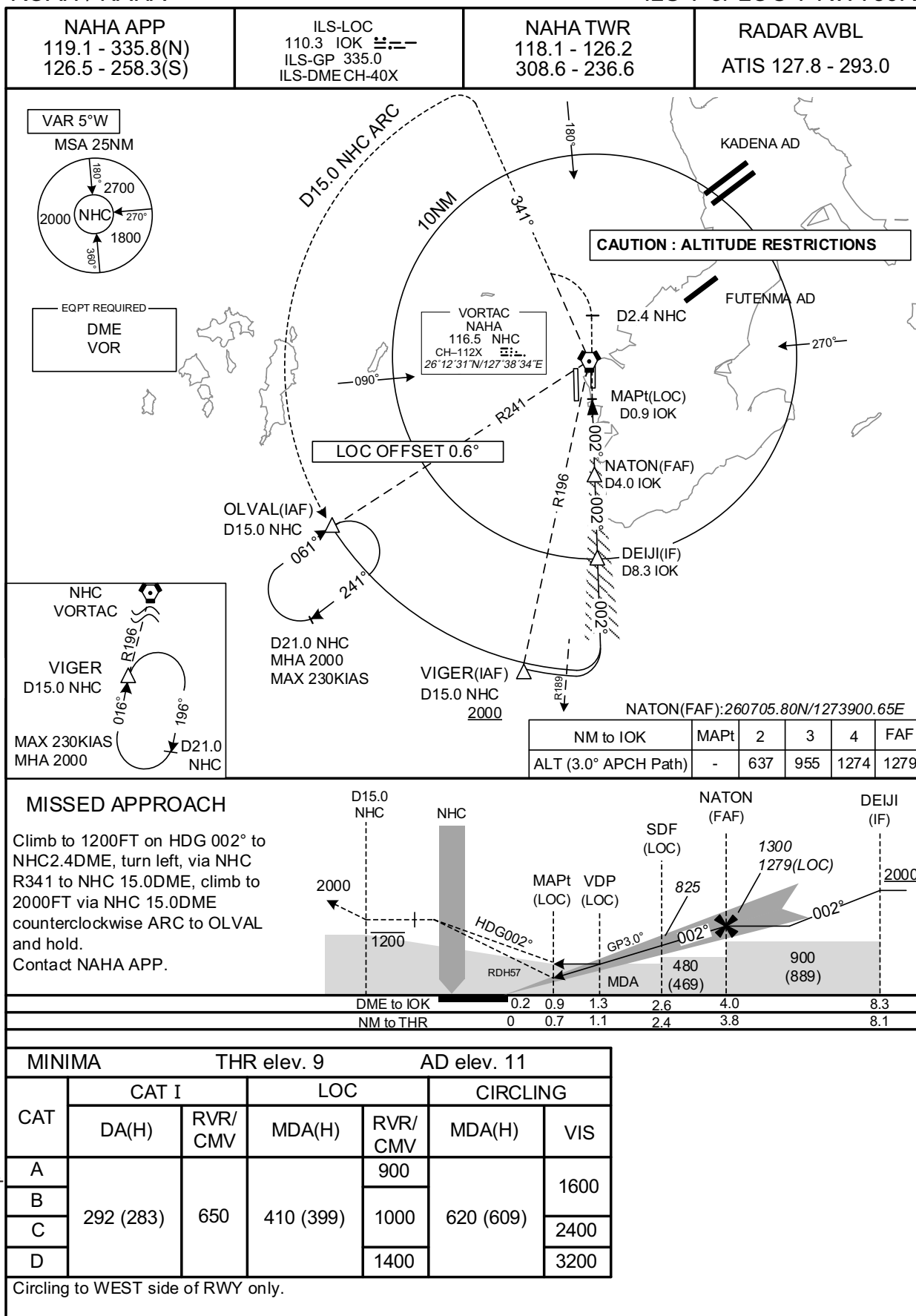




## INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS Y or LOC Y RWY36R

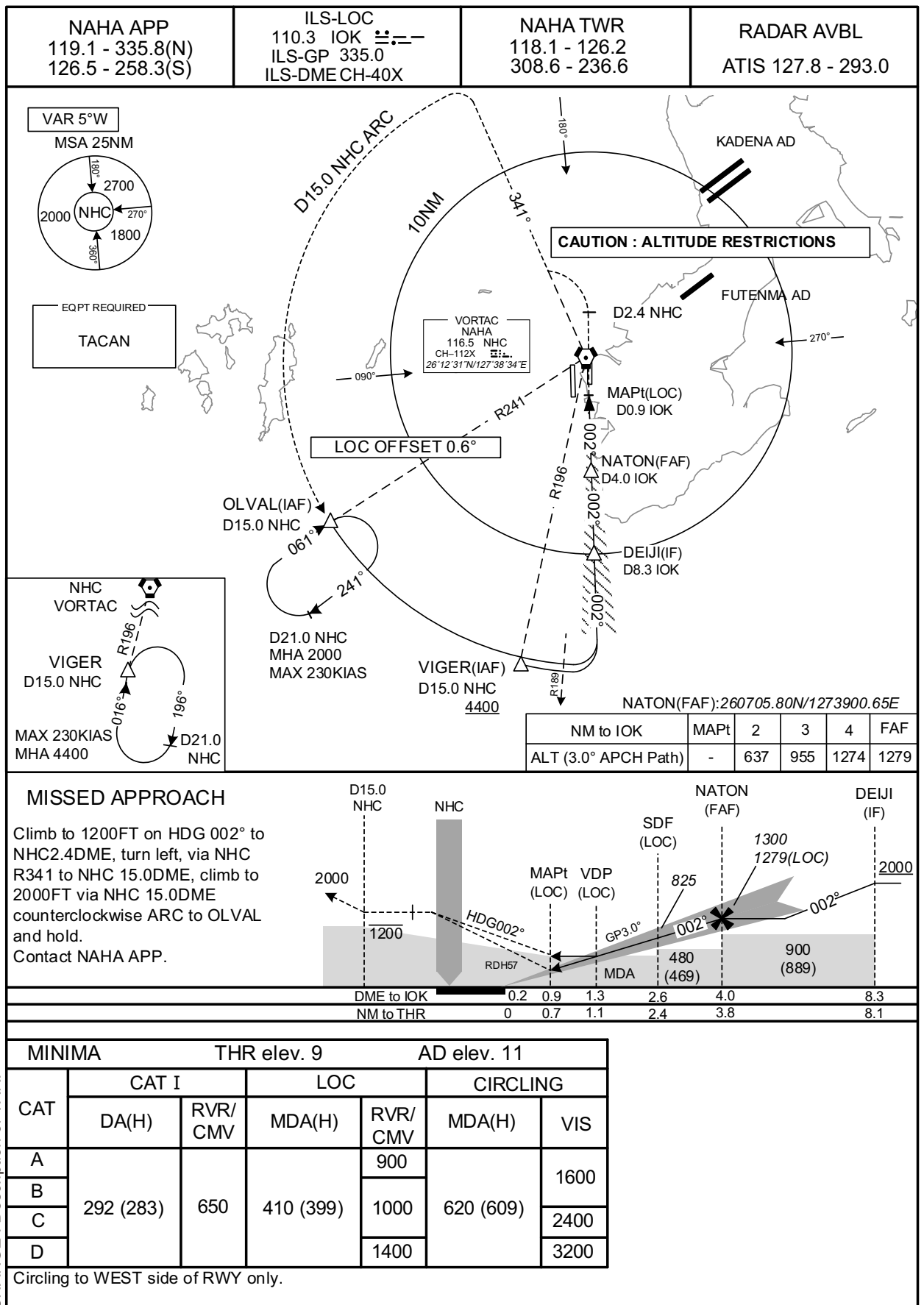


CHANGE : Description of VAR.

## INSTRUMENT APPROACH CHART

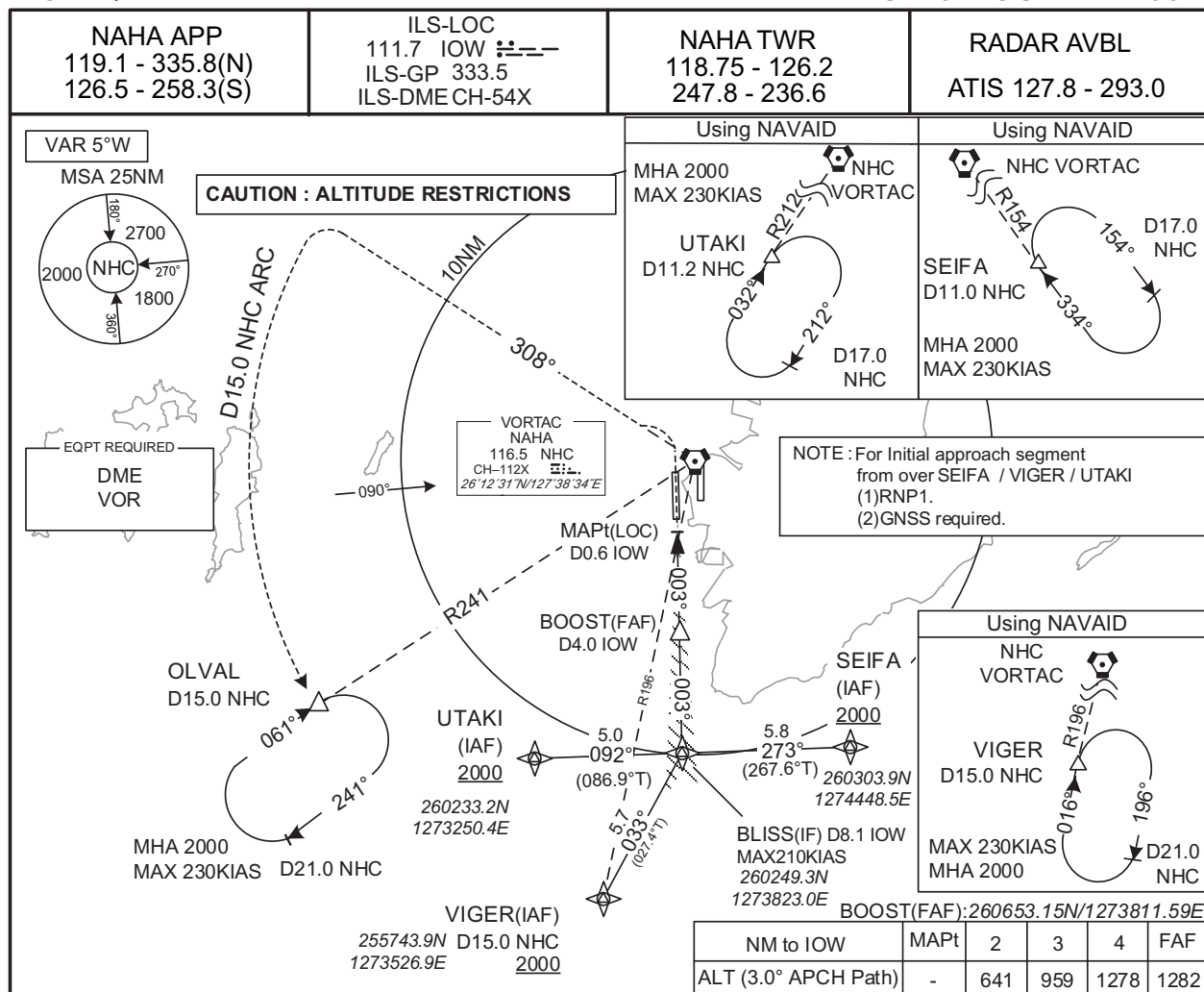
ROAH / NAHA

ILS X or LOC X RWY36R

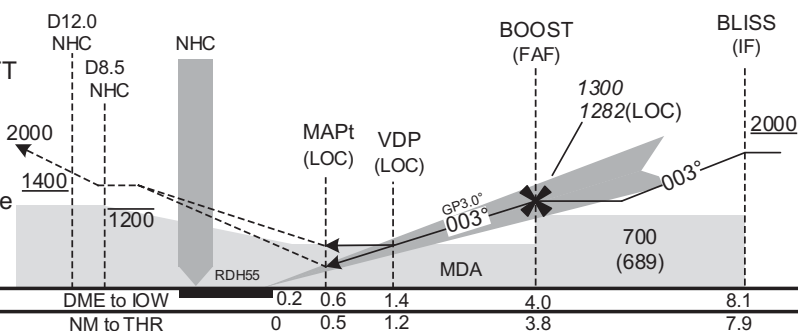


## ROAH / NAHA

ILS Z or LOC Z RWY36L



Turn left, climb to 1200FT via NHC  
R 308 to NHC8.5DME, climb to 2000FT  
via NHC R308 to NHC 15.0DME, via  
NHC 15.0DME counterclockwise ARC 2  
to OLVAL and hold.  
Cross NHC R308/12.0DME at or above  
1400FT.  
Contact NAHA APP.



MINIMA		THR elev. 14		AD elev. 11			
CAT	CAT I		LOC		CIRCLING		
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	214 (200)	550	430 (419)	900	620 (609)	1600	
B				1000			
C							3200
D							

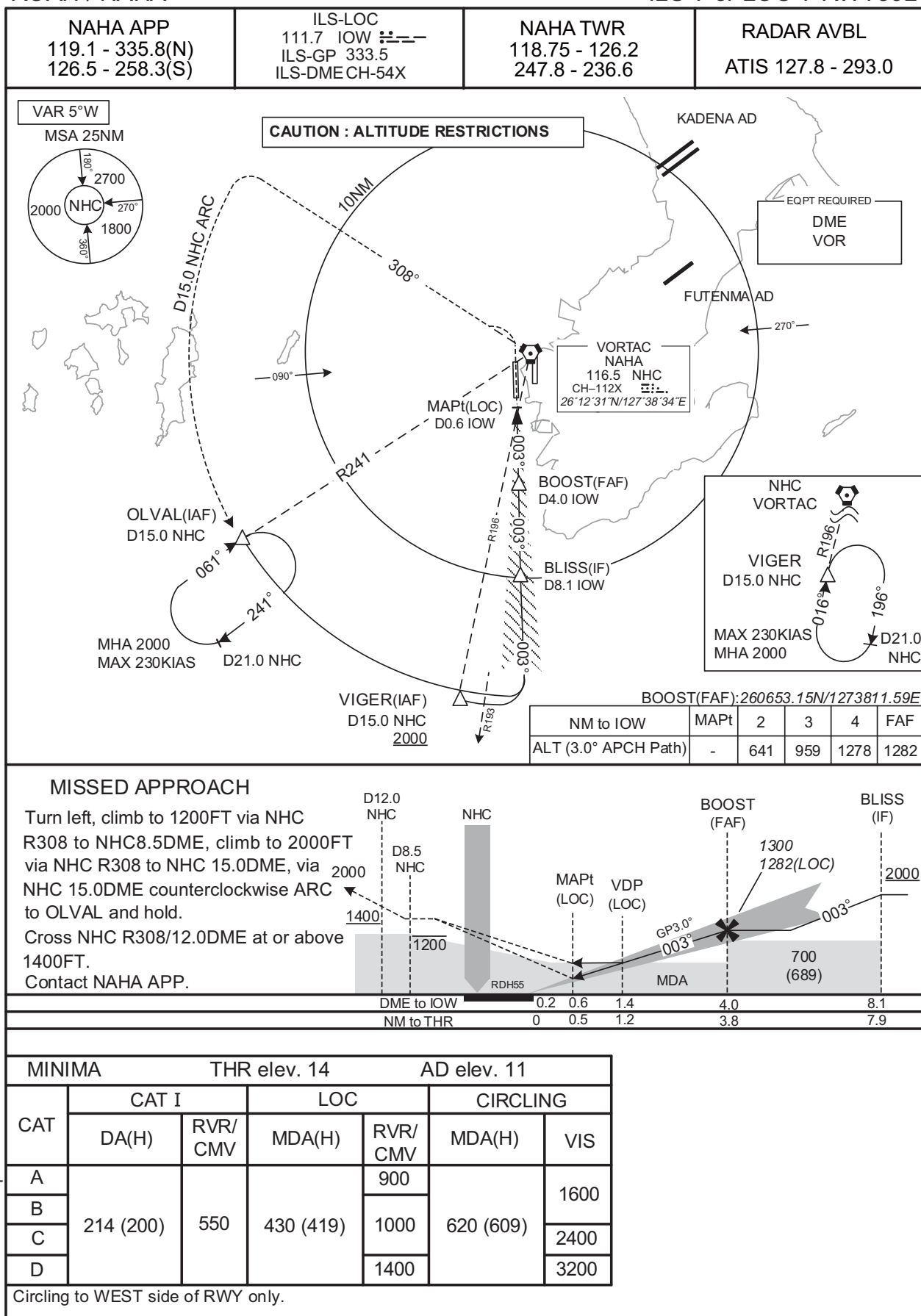
Circling to WEST side of RWY only.

CHANGE : Navigation Specification(Basic RNP1  $\rightarrow$  RNP1).

## INSTRUMENT APPROACH CHART

ROAH / NAHA

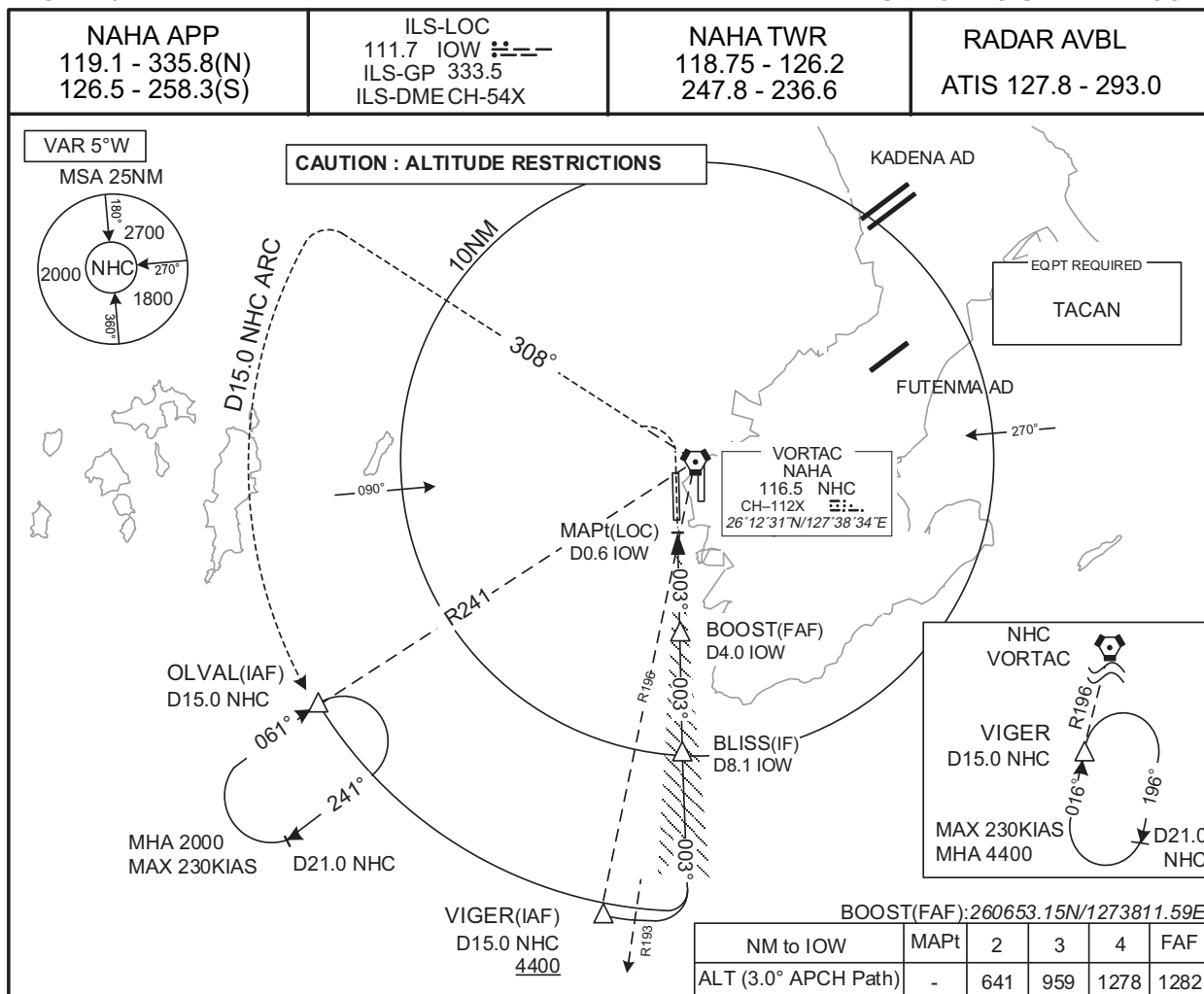
ILS Y or LOC Y RWY36L



## INSTRUMENT APPROACH CHART

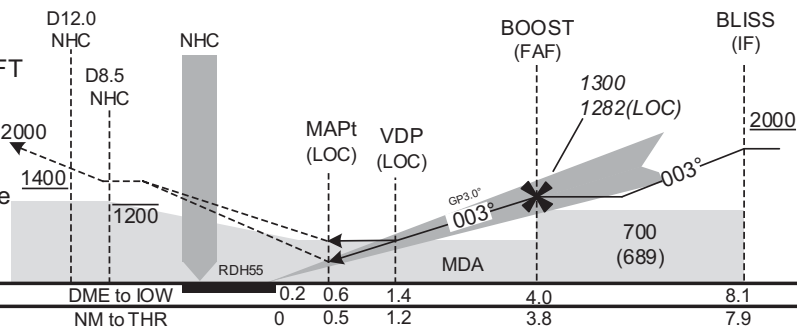
ROAH / NAHA

ILS X or LOC X RWY36L



## MISSED APPROACH

Turn left, climb to 1200FT via NHC  
 R308 to NHC8.5DME, climb to 2000FT  
 via NHC R308 to NHC 15.0DME, via  
 NHC 15.0DME counterclockwise ARC 2000  
 to OLVAL and hold.  
 Cross NHC R308/12.0DME at or above  
 1400FT.  
 Contact NAHA APP.



MINIMA

THR elev. 14

AD elev. 11

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	214 (200)	550	430 (419)	900	620 (609)	1600
B				1000		
C						2400
D						

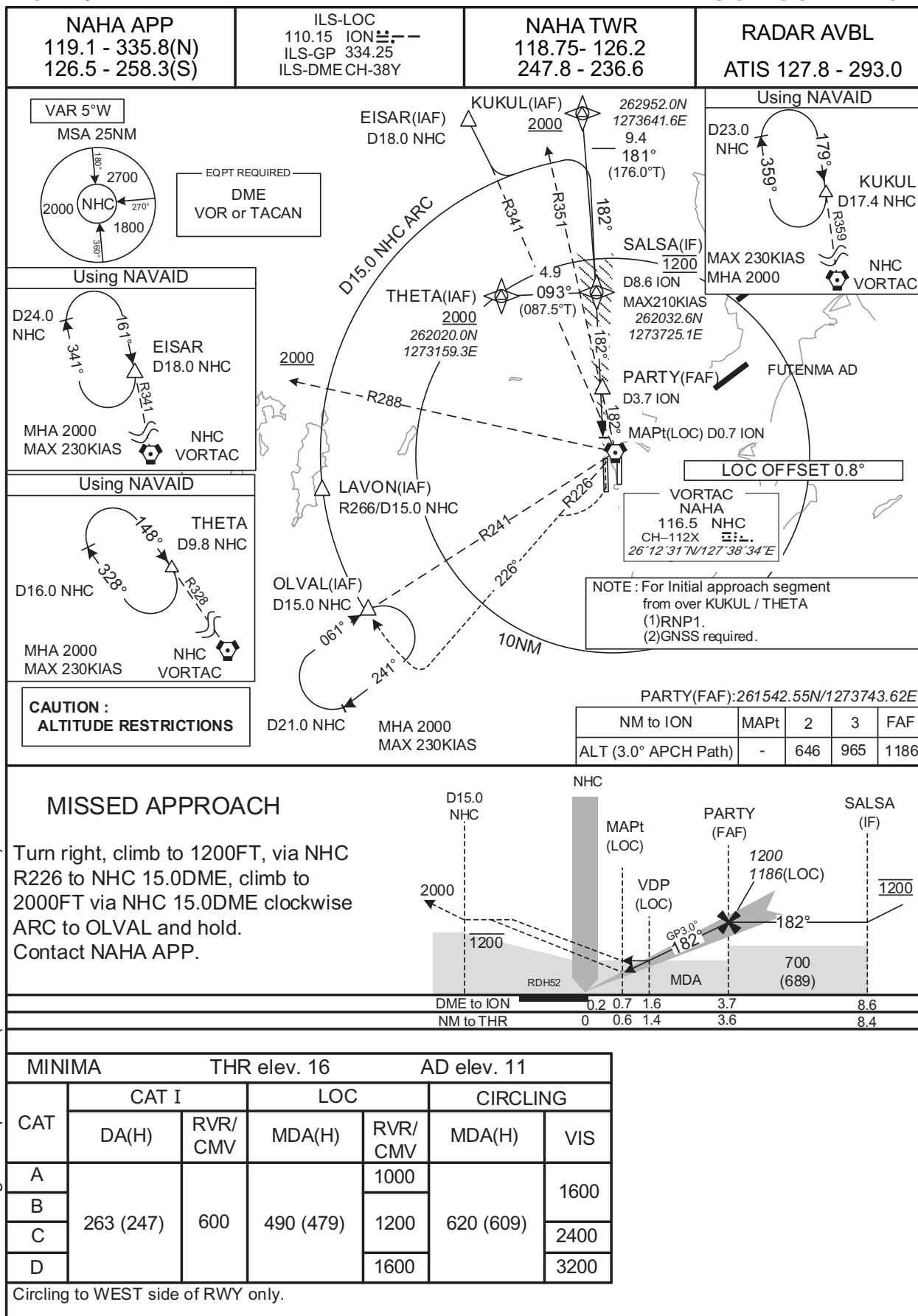
Circling to WEST side of RWY only.

CHANGE : Description of VAR.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS or LOC RWY18R



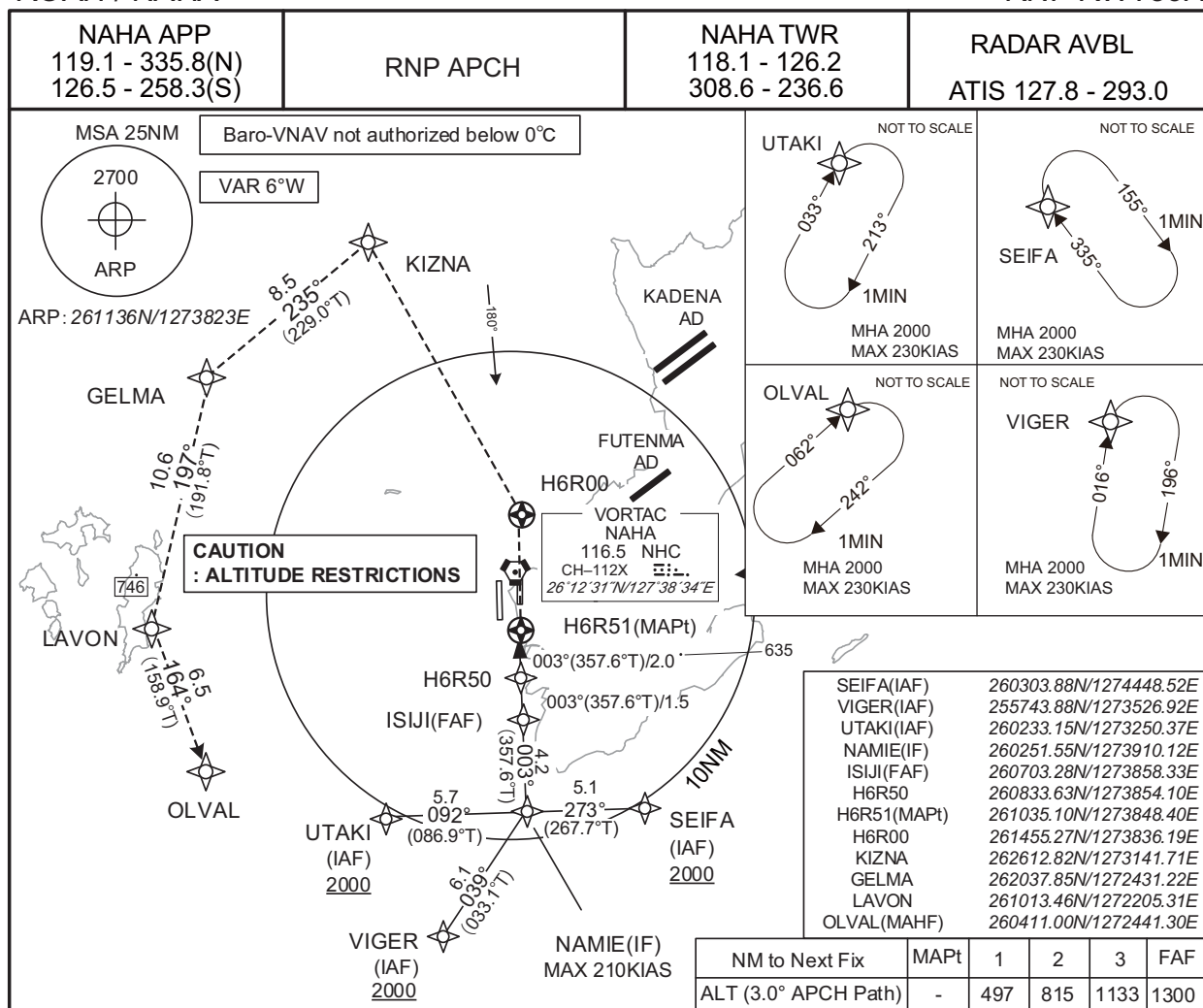
CHANGE : Navigation Specification(Basic RNP1 → RNP1).



## INSTRUMENT APPROACH CHART

ROAH / NAHA

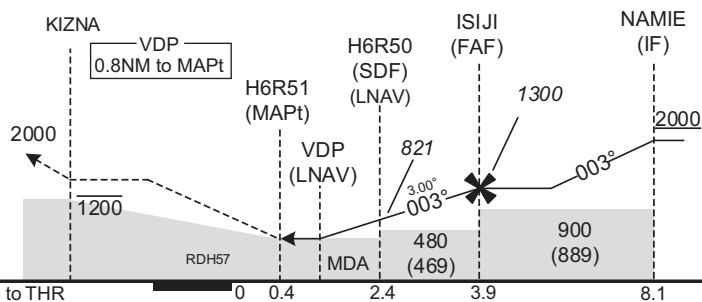
RNP RWY36R



## MISSED APPROACH

Direct to H6R00, turn left direct to KIZNA at or below 1200FT, to GELMA, to LAVON, to OLVAL and hold at 2000FT.

Contact NAHA APP.



CHANGE : Description of VAR.

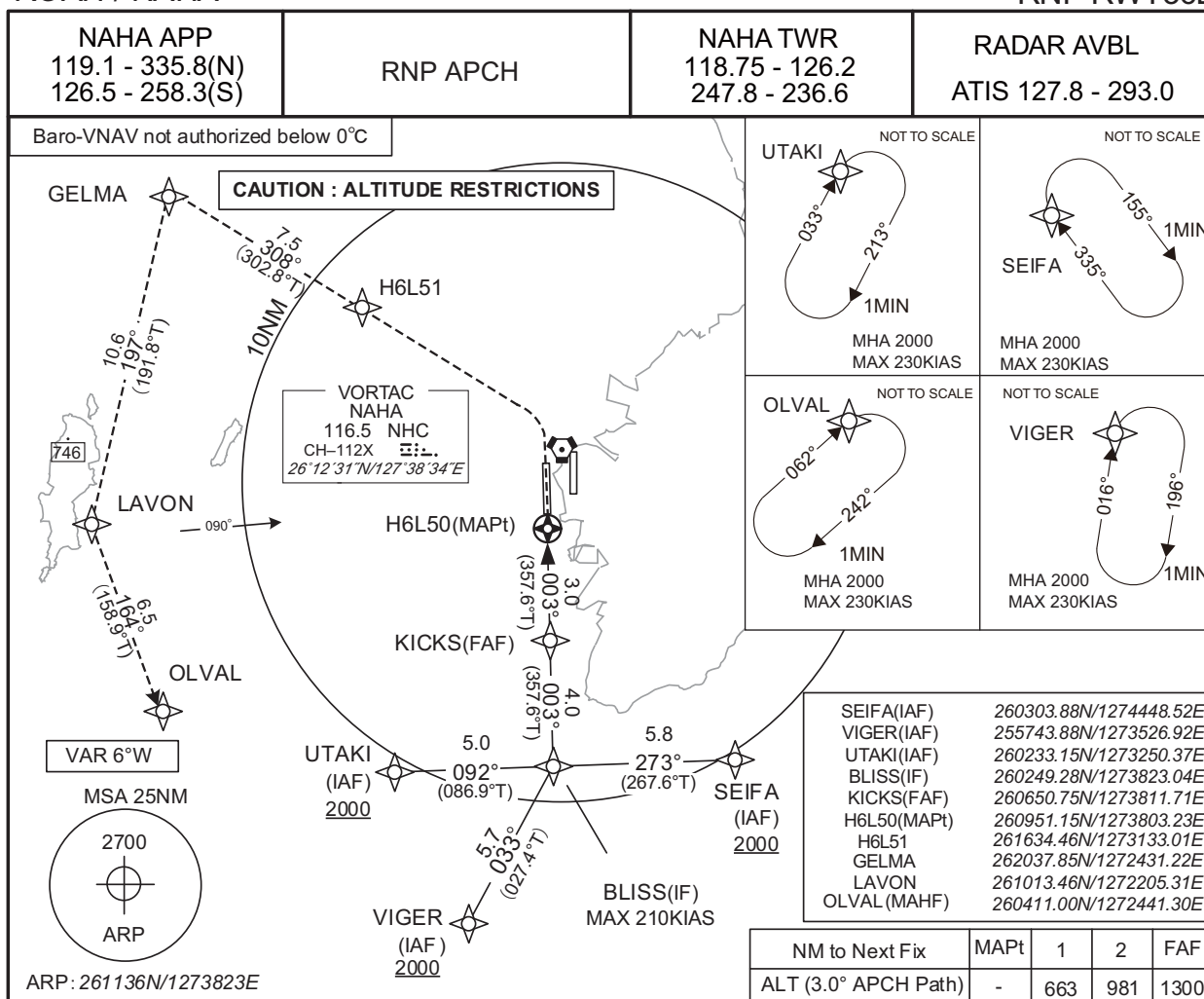
MINIMA		THR elev. 9		AD elev. 11		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	410 (401)	900	410 (399)	900	620 (609)	1600
B		1000		1000		
C						3200
D						

Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

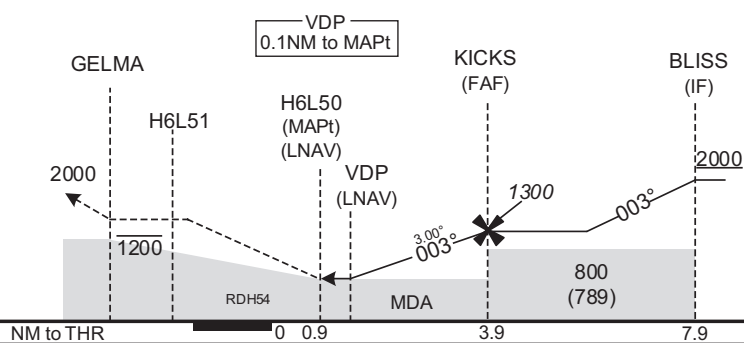
RNP RWY36L



## MISSED APPROACH

Turn left direct to H6L51, to GELMA at or below 1200FT, to LAVON, to OLVAL and hold at 2000FT.

Contact NAHA APP.



CHANGE : Description of VAR.

CAT	MINIMA		THR elev. 14		AD elev. 11	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	370 (356)	900	370 (359)	900	620 (609)	1600
B		1000		1000		2400
C		1400		1400		3200
D						

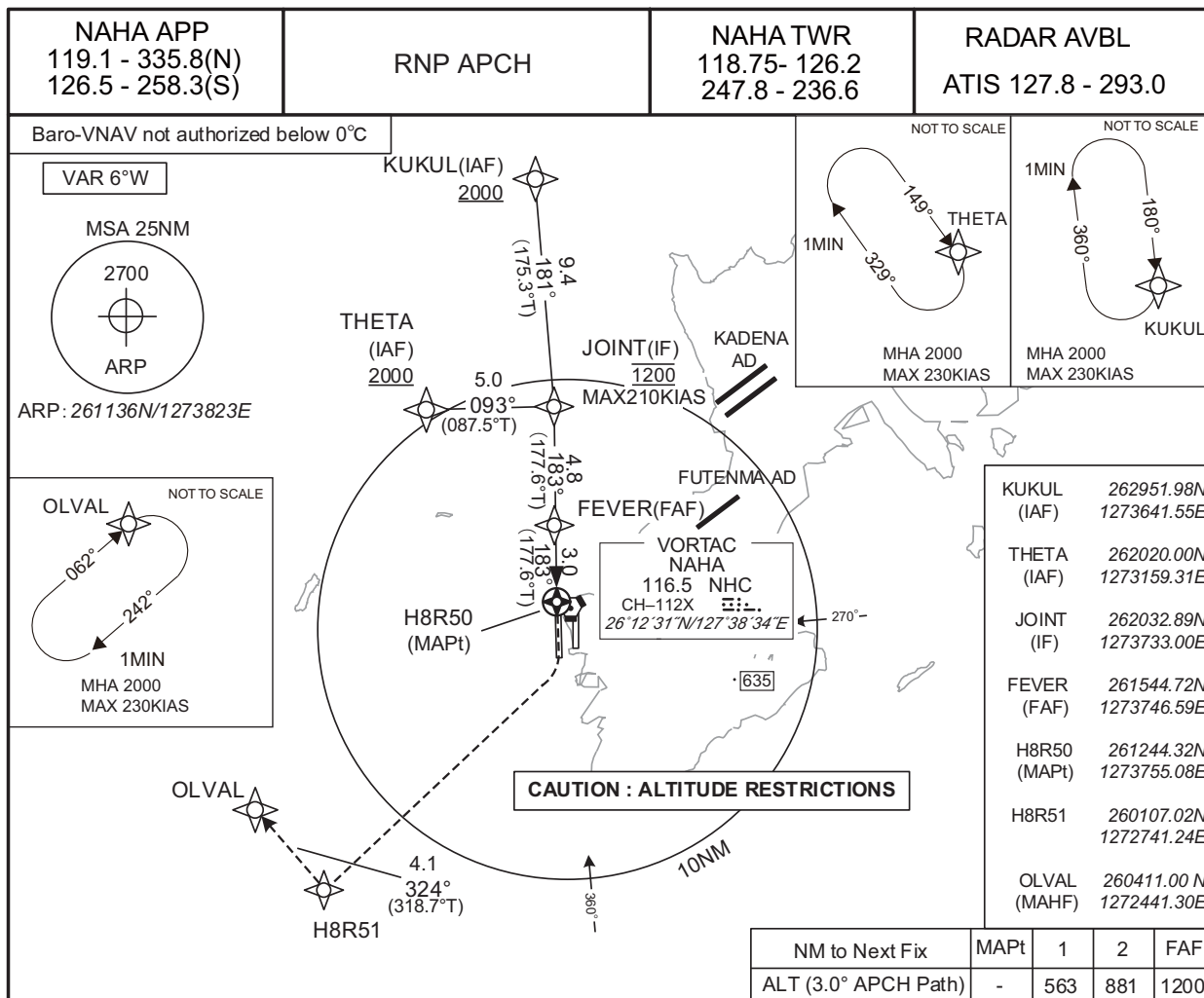
Circling to WEST side of RWY only.



## INSTRUMENT APPROACH CHART

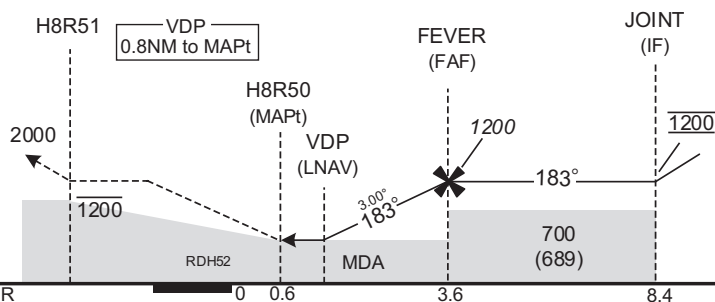
ROAH / NAHA

RNP RWY18R



## MISSED APPROACH

Turn right direct to H8R51 at or below 1200FT, to OLVAL and hold at 2000FT.  
Contact NAHA APP.



MINIMA THR elev. 16 AD elev. 11

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	490 (474)	1000	490 (479)	1000	620 (609)	1600
B		1200		1200		2400
C		1600		1600		3200
D						

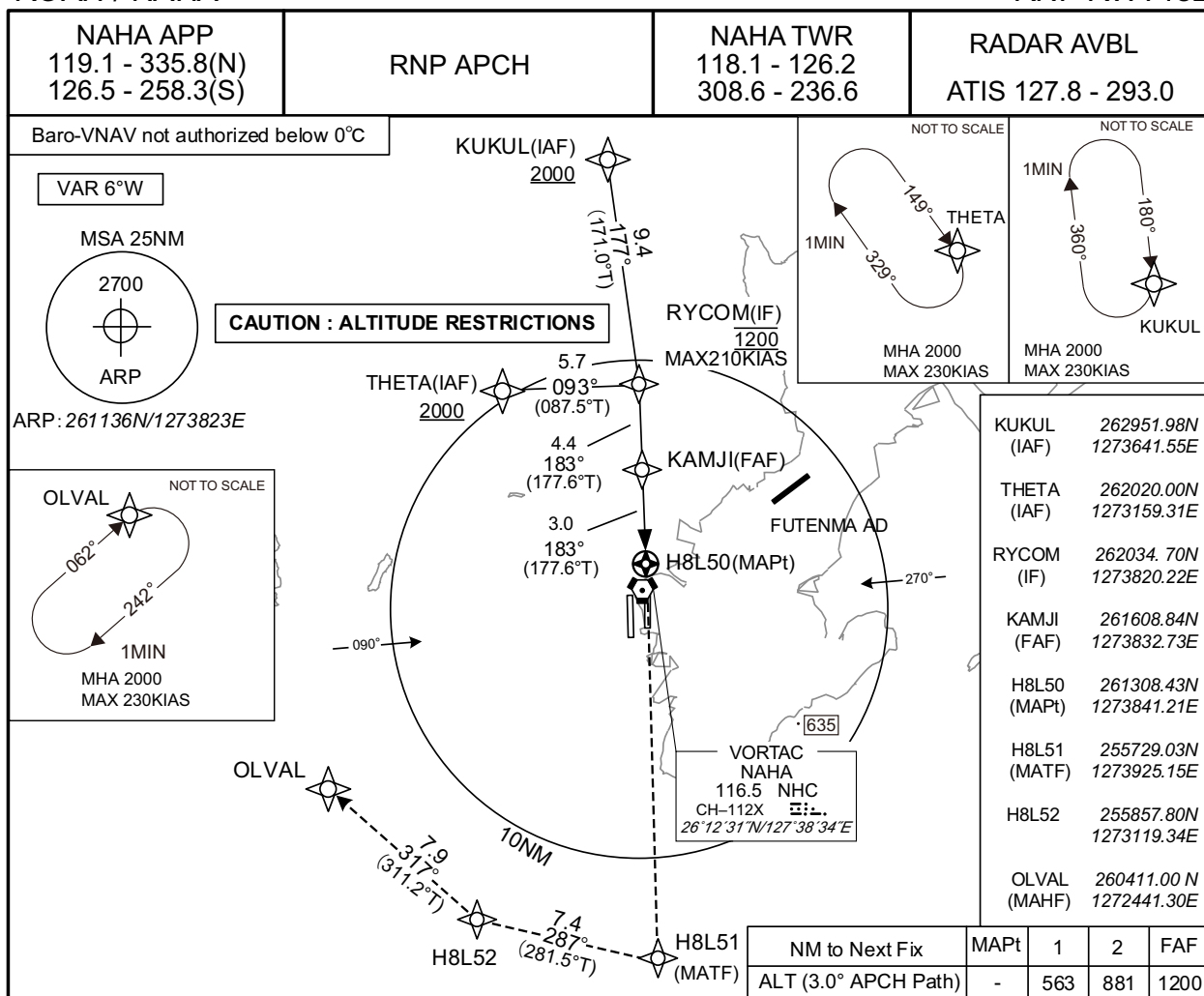
Circling to WEST side of RWY only.

CHANGE : Description of VAR.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

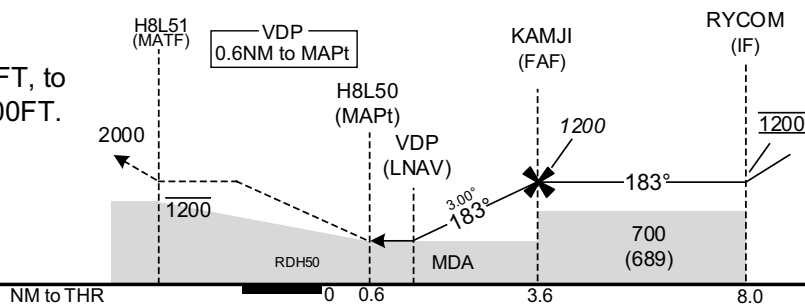
RNP RWY18L



## MISSED APPROACH

Direct to H8L51 at or below 1200FT, to H8L52, to OLVAL and hold at 2000FT.

Contact NAHA APP.



CHANGE : Description of VAR.

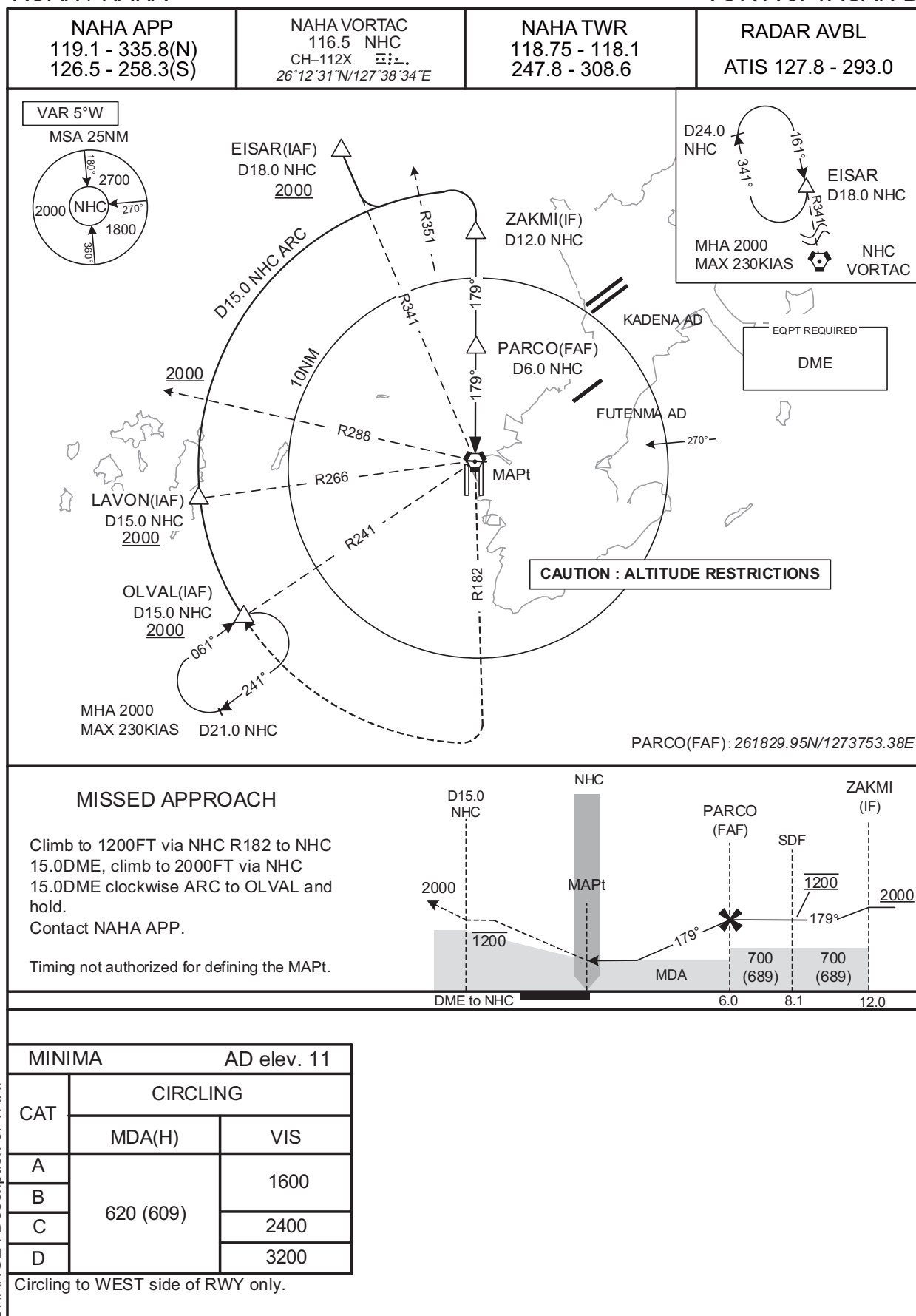
CAT	MINIMA		THR elev. 11		AD elev. 11	
	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	430 (419)	1200	430 (419)	1200	620 (609)	1600
B		1300		1300		2400
C		1400		1400		
D		1600		1600		3200

Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

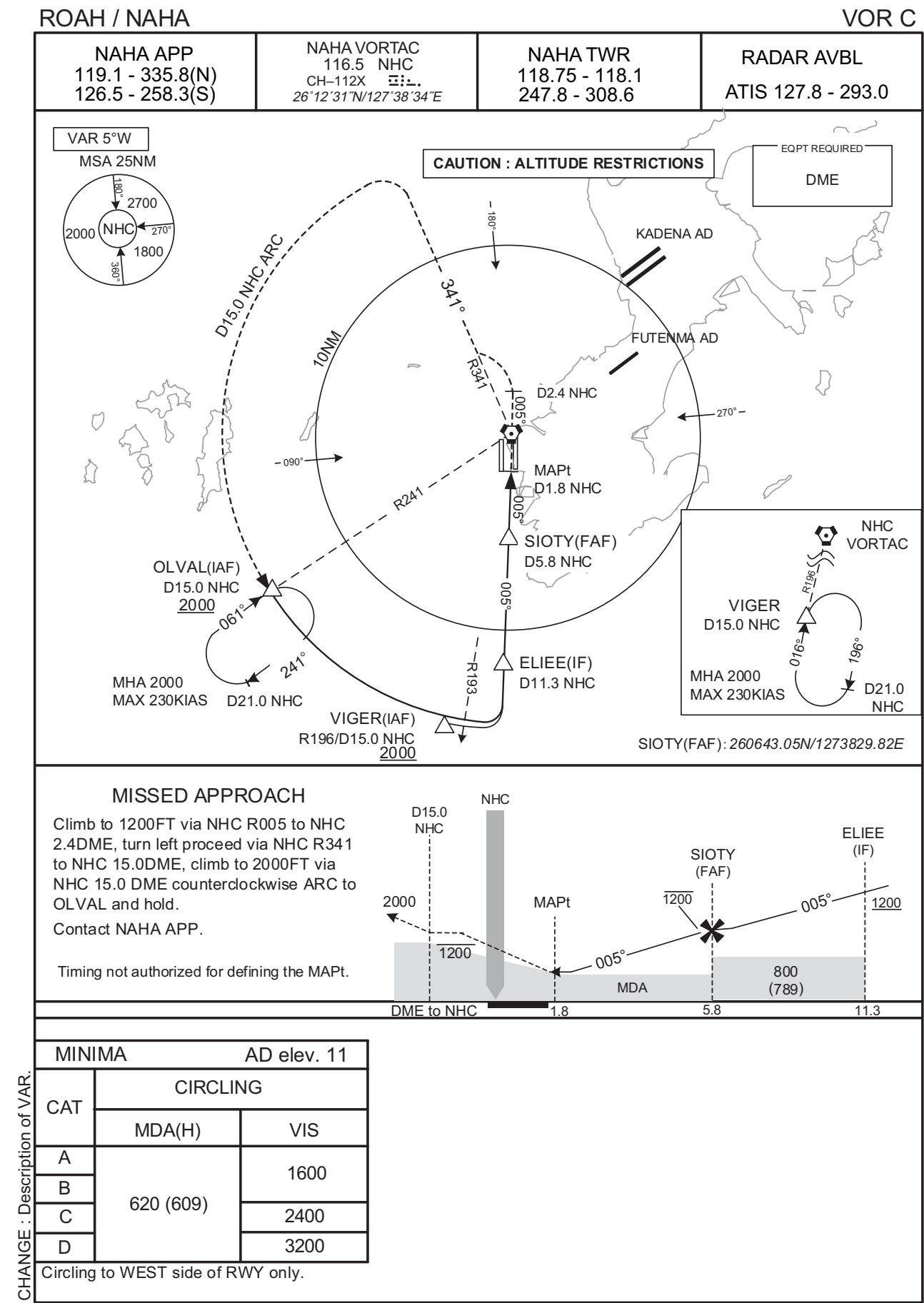
ROAH / NAHA

VOR A or TACAN B



CHANGE : Description of VAR.

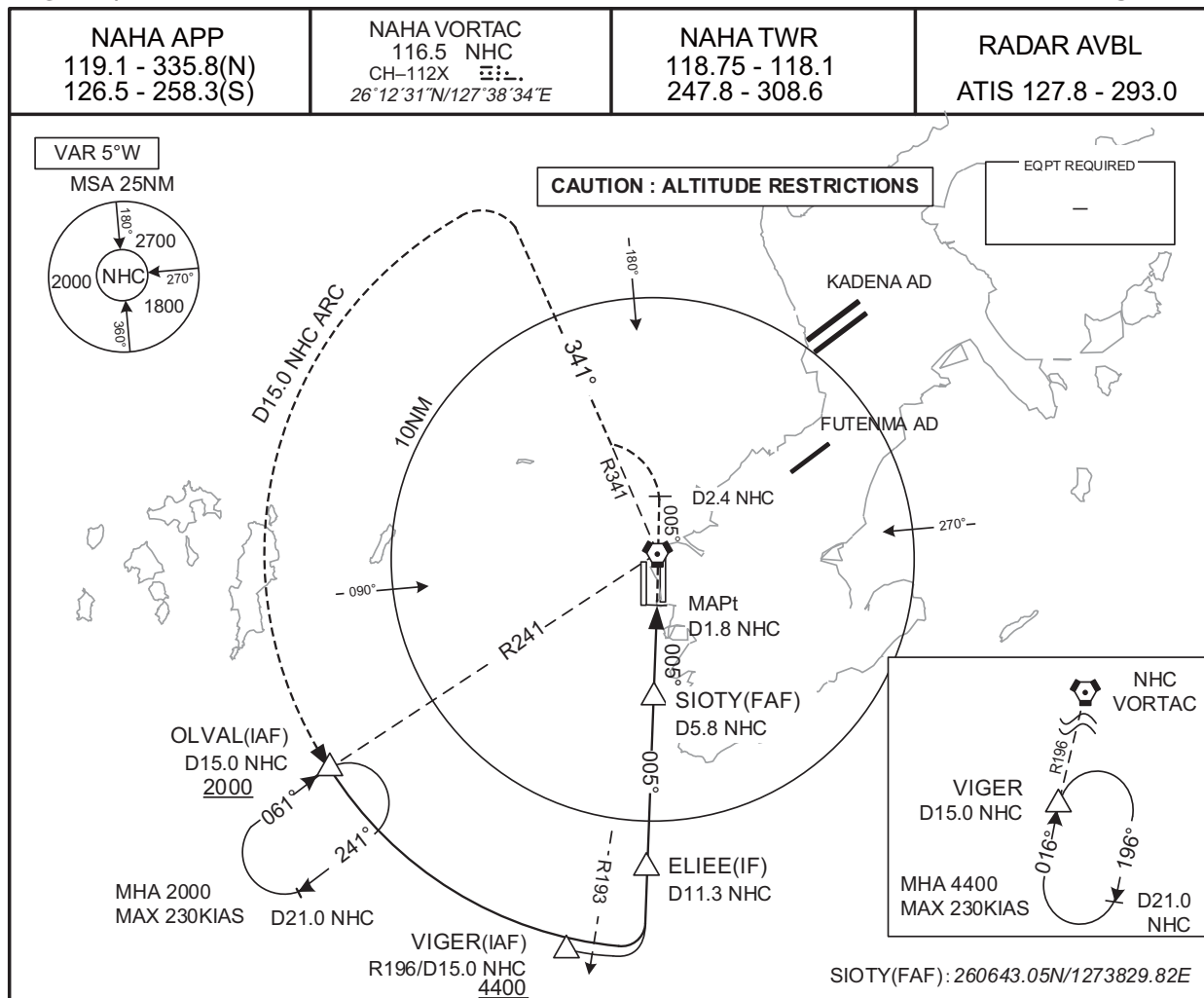
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

ROAH / NAHA

TACAN D

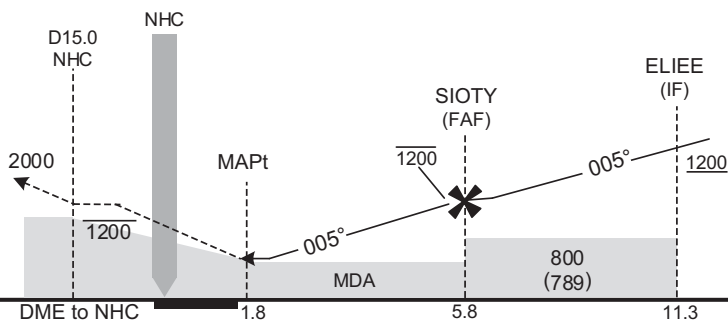


## MISSED APPROACH

Climb to 1200FT via NHC R005 to NHC 2.4DME, turn left proceed via NHC R341 to NHC 15.0DME, climb to 2000FT via NHC 15.0 DME counterclockwise ARC to OLVAL and hold.

Contact NAHA APP.

Timing not authorized for defining the MAPt.



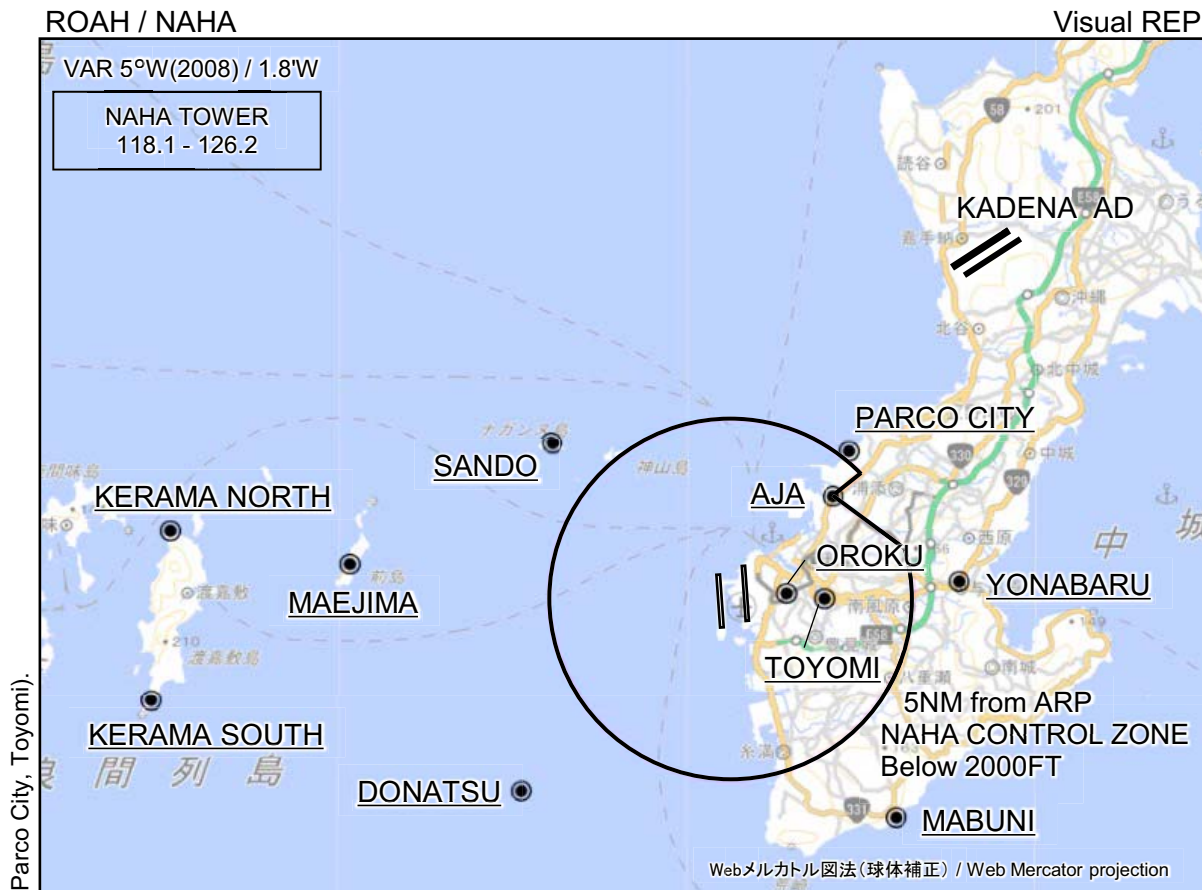
## MINIMA

AD elev. 11

CAT	CIRCLING	
	MDA(H)	VIS
A	700 (689)	1600
B		2400
C		3200
D		

Circling to WEST side of RWY only.

CHANGE : Description of VAR.



※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).

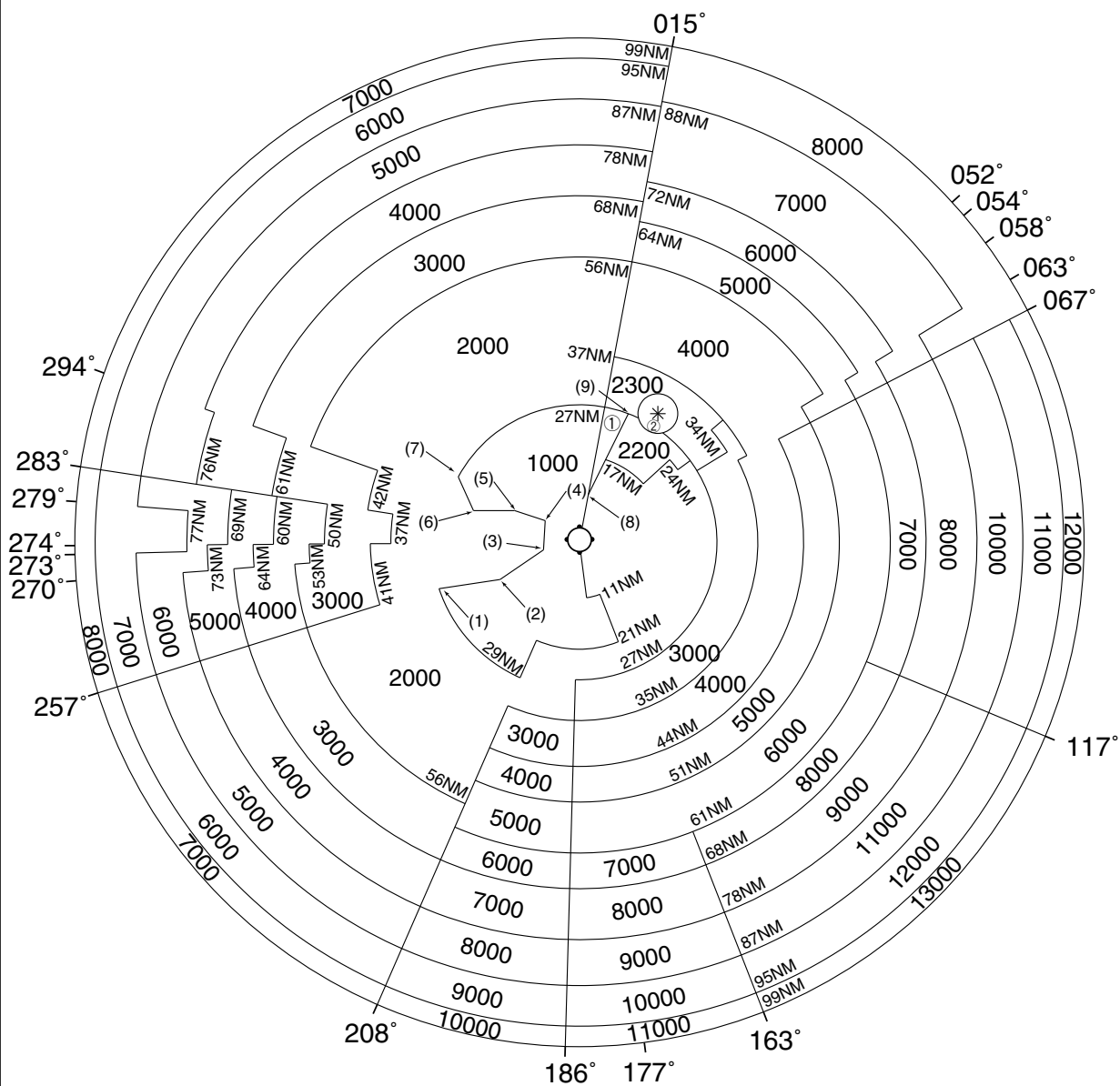
CHANGE : Map updated. BRG/DIST from ARP. Visual REP established(Oroku, Parco City, Toyomi).

Call sign	BRG / DIST from ARP	Remarks
サンド Sando	311°T / 6.6NM	ナガンヌ島 Island
慶良間ノース Kerama North	277°T / 15.4NM	渡嘉敷島北端 North edge of island
前島 Maejima	276°T / 10.5NM	前島 Island
慶良間サウス Kerama South	260°T / 16.1NM	渡嘉敷島南端 South edge of island
ドーナツ Donatsu	227°T / 7.8NM	ルカン礁 Coral reef
パルコシティ Parco City	037°T / 5.2NM	パルコシティ Shopping mall
安謝 Aja	043°T / 4.0NM	国道58号線安謝橋 Bridge
小禄 Oroku	083°T / 1.5NM	モノレール小禄駅 Station
与那原 Yonabaru	085°T / 6.2NM	国道329号線与那原交差点 Intersection
とよみ Toyomi	090°T / 2.5NM	とよみ大橋と爬龍橋の交点 Intersection
摩文仁 Mabuni	143°T / 7.5NM	平和祈念公園 Park

ROAH / NAHA

Minimum Vectoring Altitude CHART

VAR 5°W (2011)



- |        |                      |                      |                                |
|--------|----------------------|----------------------|--------------------------------|
| ① 1500 | (1) 260301N/1270807E | (6) 261829N/1271524E | CENTER: 261231N/1273834E (NHC) |
| ② 2600 | (2) 260459N/1272121E | (7) 262505N/1271157E | * : 263759N/1275528E           |
|        | (3) 261057N/1273045E | (8) 262154N/1274025E | RADIUS 3.9NM                   |
|        | (4) 261640N/1273102E | (9) 263755N/1274900E |                                |
|        | (5) 261835N/1272422E |                      |                                |