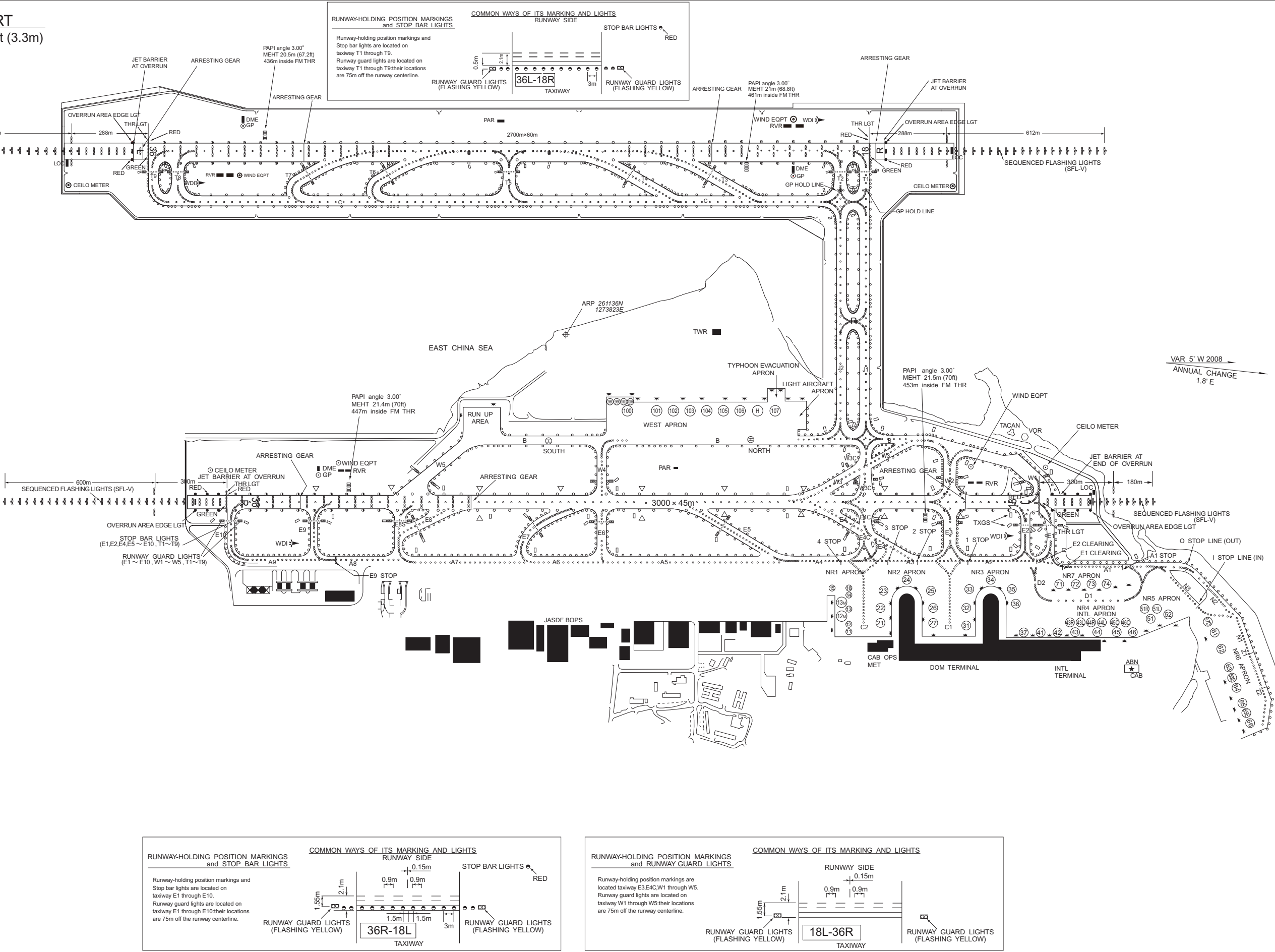
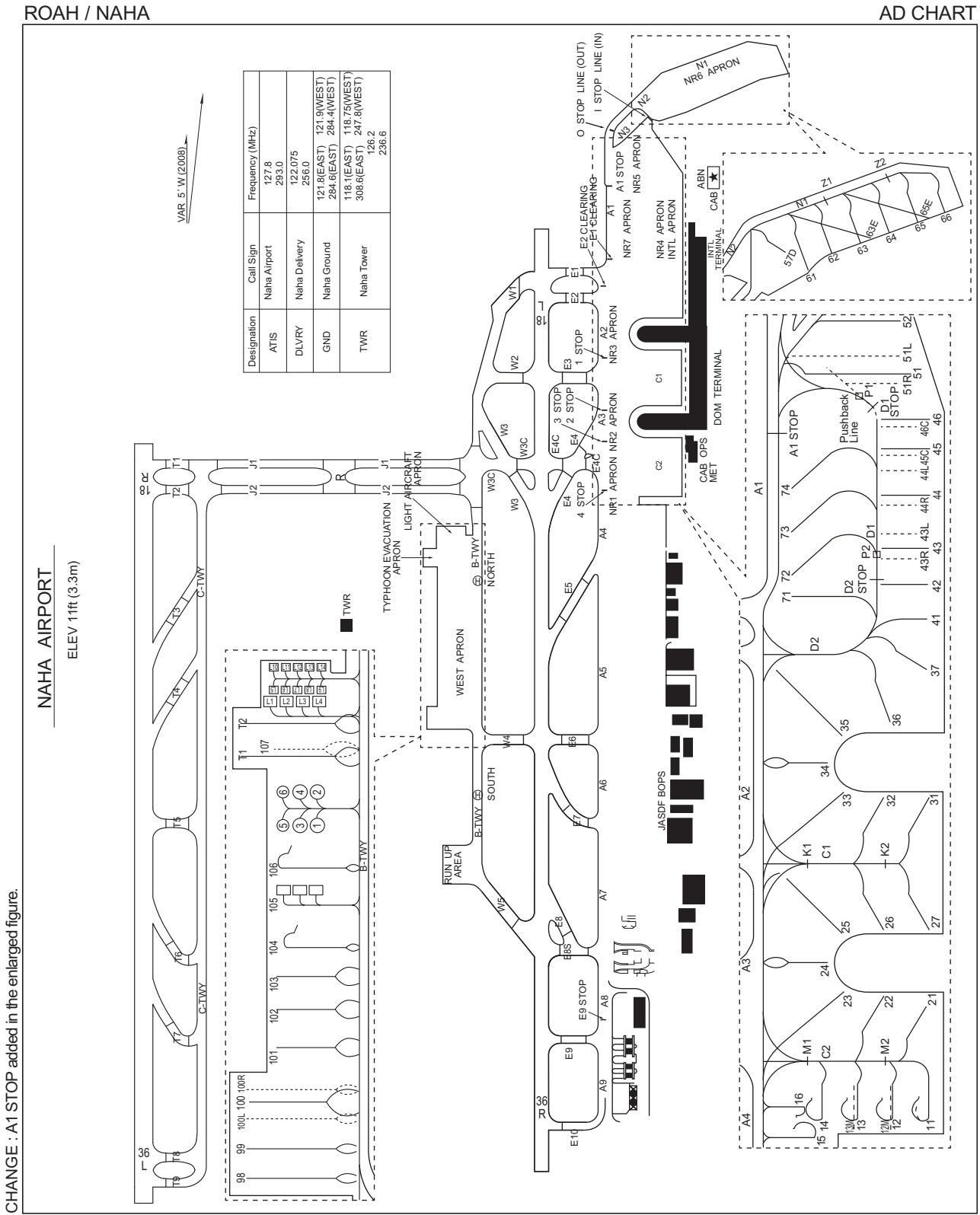


AERODROME CHART

NAHA AIRPORT  
ELEV 11ft (3.3m)

CHANGE : TWY CL LGT installed(W1). TWY CL LGT added(E1, E2).



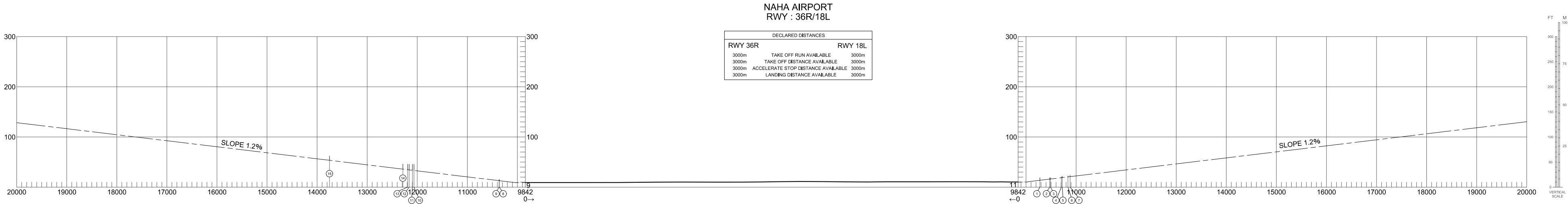


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AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 5°25' W-APR 2020



LEGEND	AMENDMENT RECORD		
	Nr	DATE	ENTERED BY
IDENTIFICATION NUMBER			
POLE, TOWER, SPIRE, ANTENNA, ETC			
AERONAUTICAL GROUND LIGHT			
OBSTRUCTION LIGHT			
BUILDING OR LARGE STRUCTURE			
RAILROAD			
TRANSMISSION LINE OR OVERHEAD CABLE			
LEVEE			
TREE			
LAKE			
RIVER			
CONTOUR(S)			
TRIANGULATION POINT			

CHANGE : RWY number

AERODROME OBSTACLE CHART-ICAO

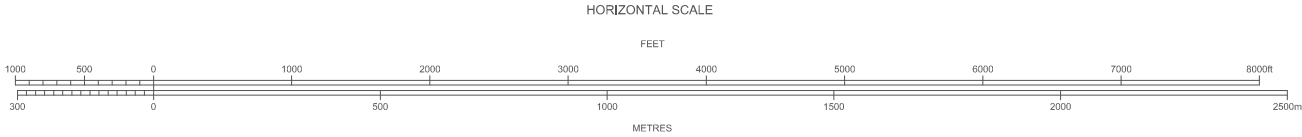
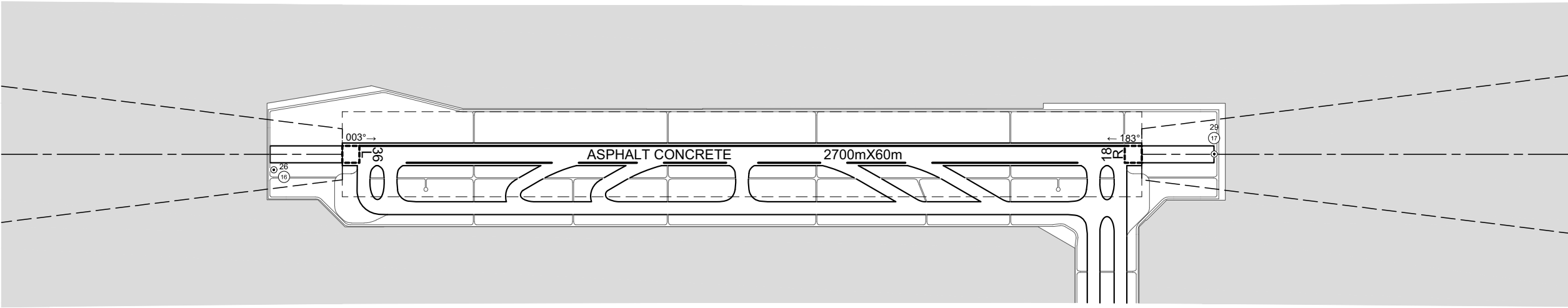
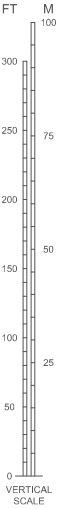
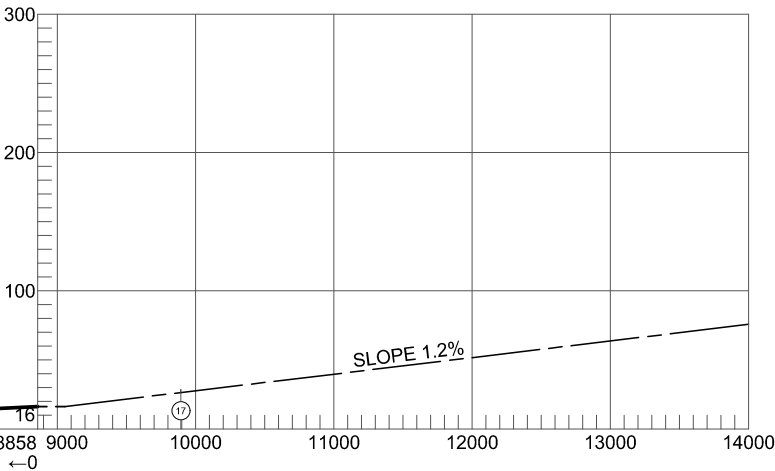
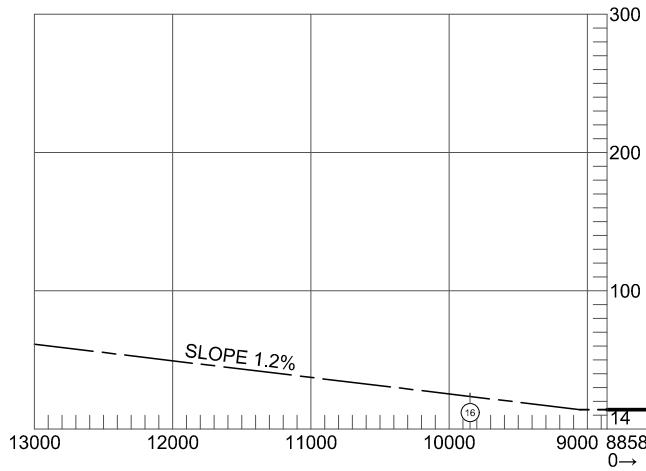
DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 5°25' W-APR 2020

NAHA AIRPORT  
RWY : 36L/18R

DECLARED DISTANCES		
RWY 36L		RWY 18R
2700m	TAKE OFF RUN AVAILABLE	2700m
2700m	TAKE OFF DISTANCE AVAILABLE	2700m
2700m	ACCELERATE STOP DISTANCE AVAILABLE	2700m
2700m	LANDING DISTANCE AVAILABLE	2700m



LEGEND		AMENDMENT RECORD		
①	IDENTIFICATION NUMBER	Nr	DATE	ENTERED BY
⦿	POLE, TOWER, SPIRE, ANTENNA, ETC			
★	AERONAUTICAL GROUND LIGHT			
✱	OBSTRUCTION LIGHT			
■	BUILDING OR LARGE STRUCTURE			
—+—+—	RAILROAD			
—+—+—	TRANSMISSION LINE OR OVERHEAD CABLE			
	LEVEE			
★	TREE			
○	LAKE			
~~~~~	CONTOUR(S)			
~~~~~	RIVER			

CHANGE : Newly established



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



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

ROAH/NAHA

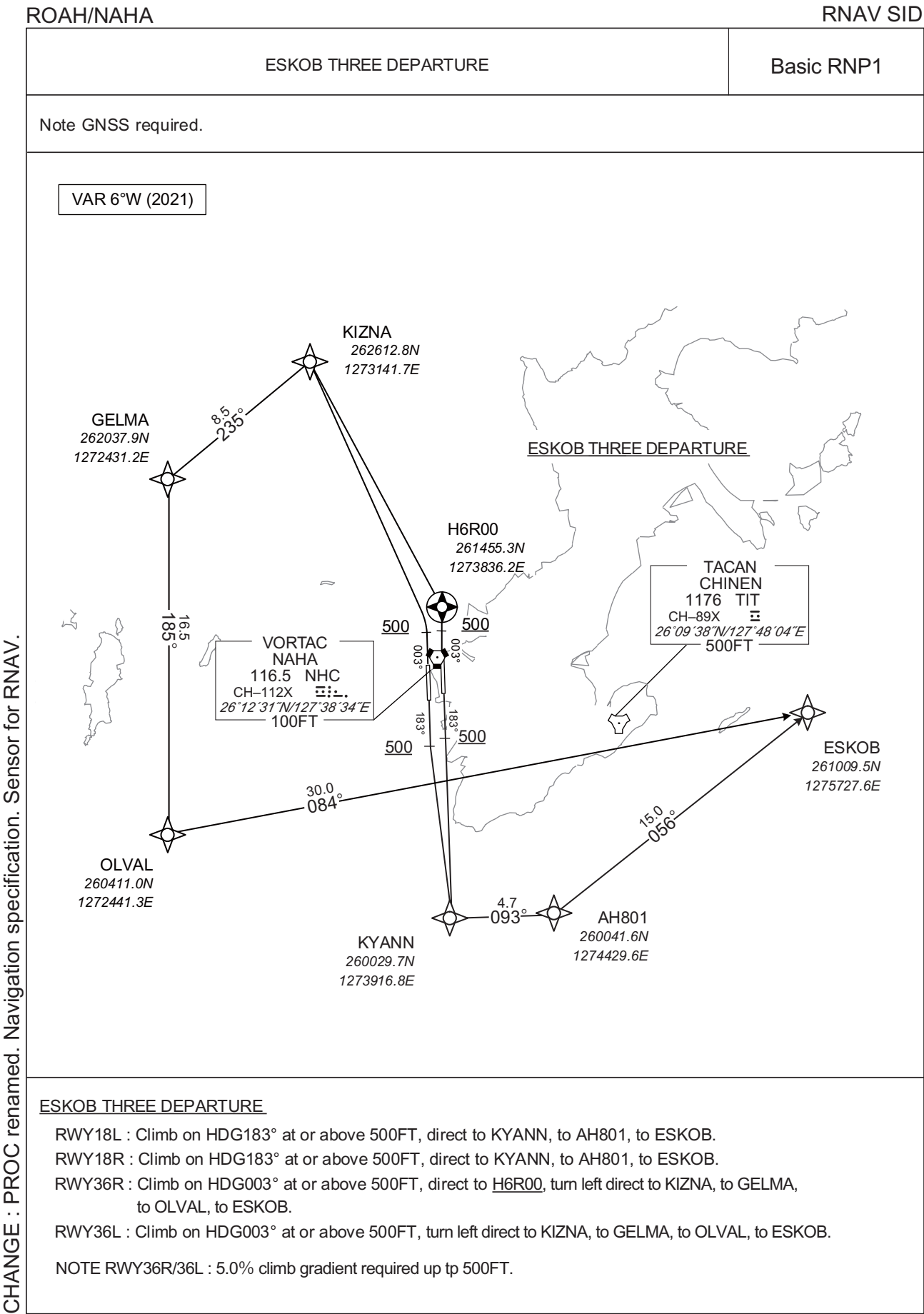
SID



CHANGE:New PROC



STANDARD DEPARTURE CHART-INSTRUMENT



CHANGE : PROC renamed. Navigation specification. Sensor for RNAV.

## 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	-	-	Basic RNP1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	Basic RNP1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	Basic RNP1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	Basic RNP1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	Basic RNP1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	Basic RNP1

## RWY36R

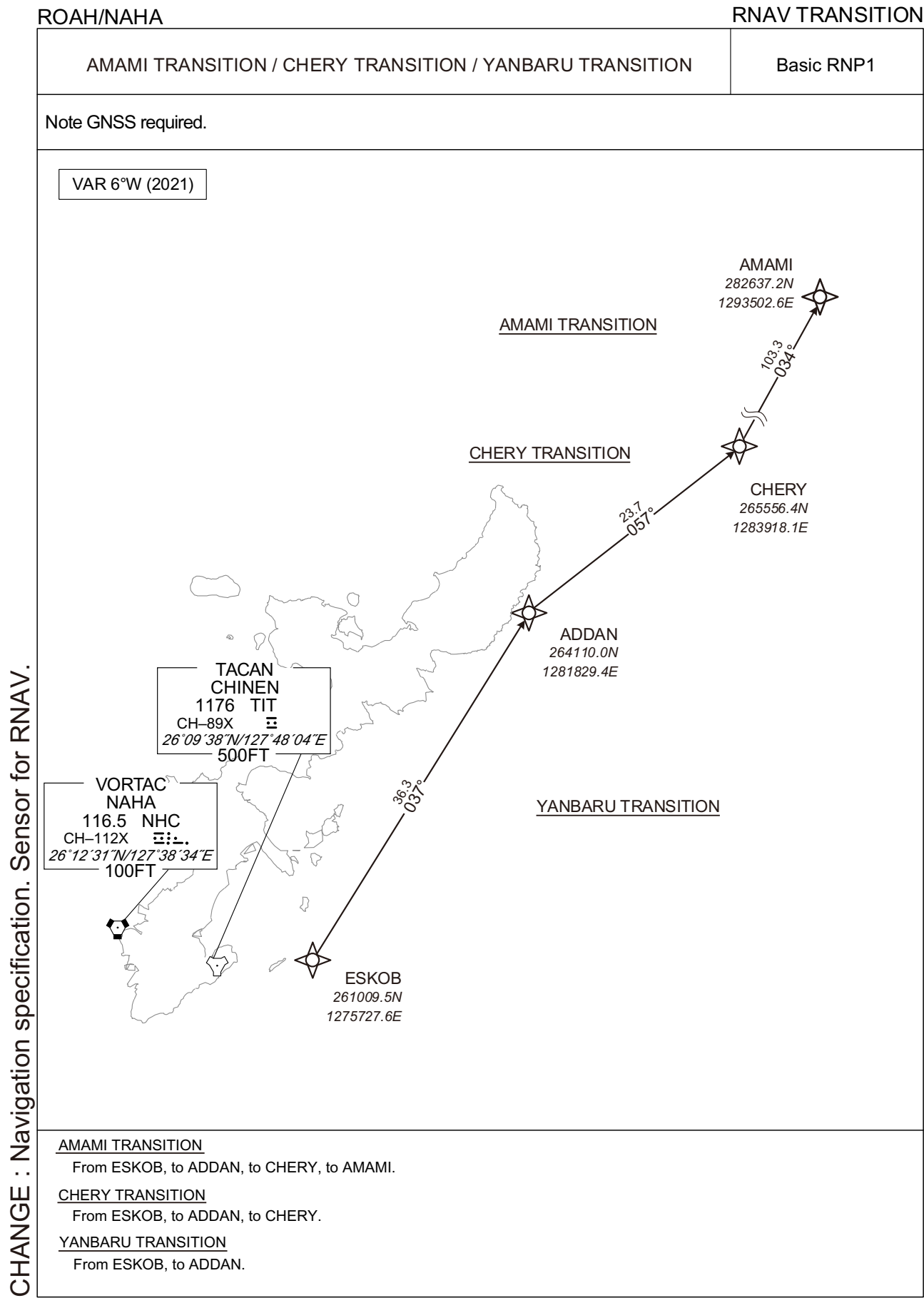
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	Basic RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
005	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	Basic RNP1
006	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
004	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	Basic RNP1
005	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	Basic RNP1

CHANGE : PROC renamed. Navigation specification.

STANDARD DEPARTURE CHART-INSTRUMENT



CHANGE : Navigation specification. Sensor for RNAV.

## 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	-	-	-	-	-	Basic RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	Basic RNP1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	Basic RNP1
004	TF	AMAMI	-	034 (028.3)	-5.6	103.3	-	-	-	-	Basic RNP1

CHERY TRANSITION

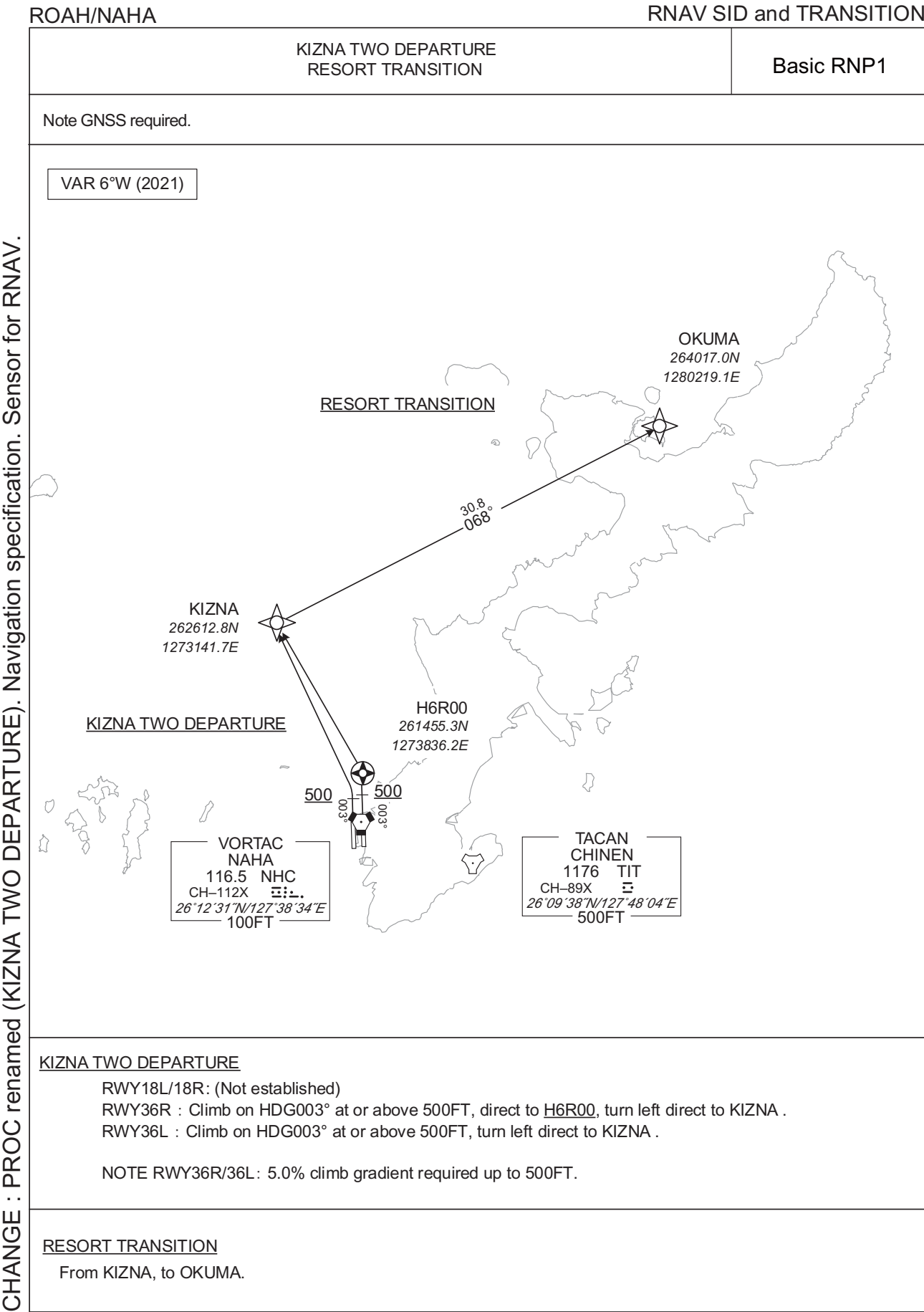
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ESKOB	-	-	-5.6	-	-	-	-	-	Basic RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	Basic RNP1
003	TF	CHERY	-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

CHANGE : Navigation specification.

STANDARD DEPARTURE CHART-INSTRUMENT



CHANGE : PROC renamed (KIZNA TWO DEPARTURE). Navigation specification. Sensor for RNAV.



## 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	-	-	Basic RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic 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	-	-	-	-	-	Basic RNP1
002	TF	OKUMA	-	068 (062.7)	-5.6	30.8	-	-	-	-	Basic RNP1

CHANGE : PROC renamed (KIZNA TWO DEPARTURE). Navigation specification.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

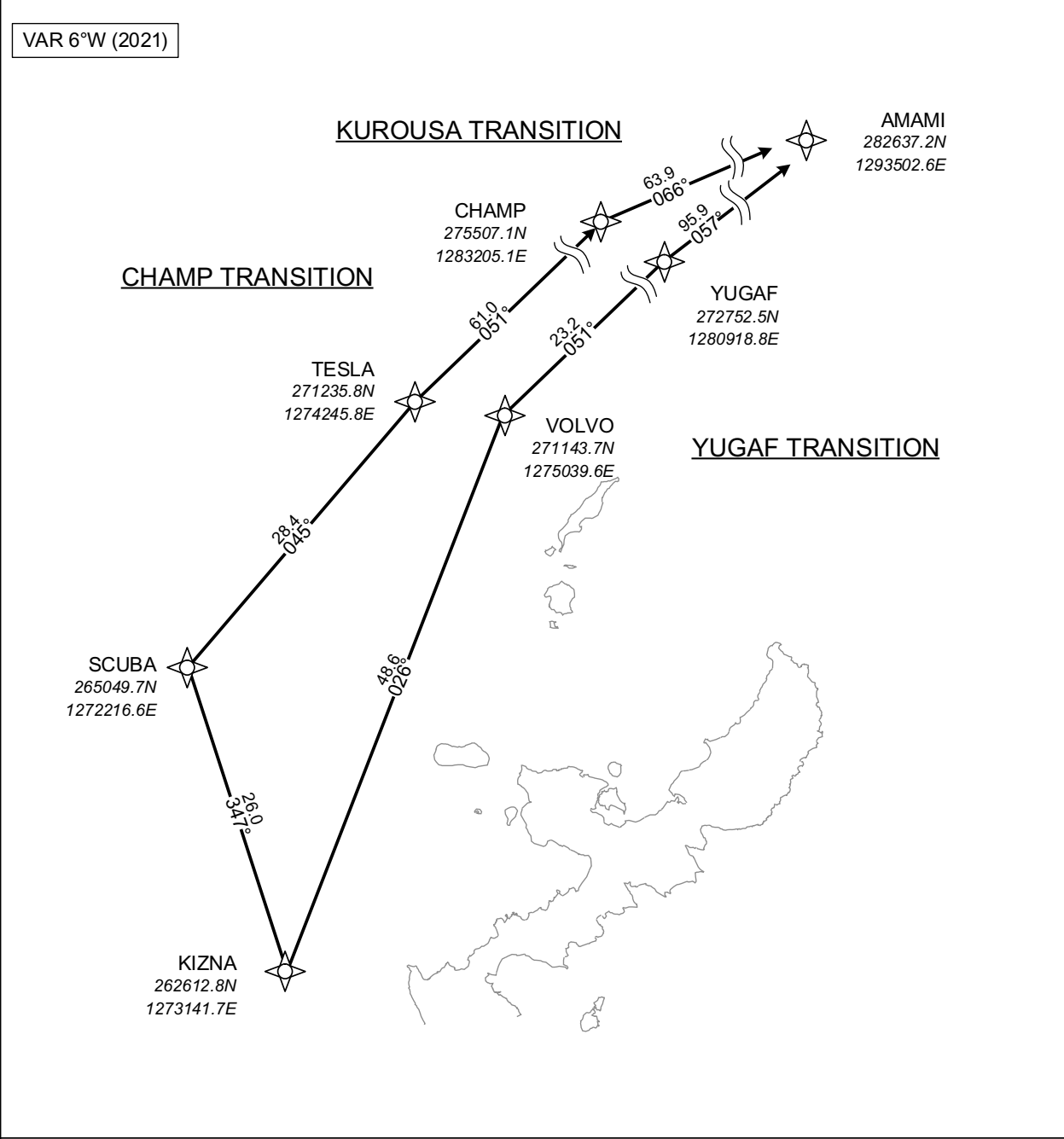
RNAV TRANSITION

KUROUSA TRANSITION CHAMP TRANSITION YUGAF TRANSITION	Basic RNP1
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Note GNSS required.

VAR 6°W (2021)

CHANGE : Navigation specification. Sensor for RNAV.



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

CHAMP TRANSITION

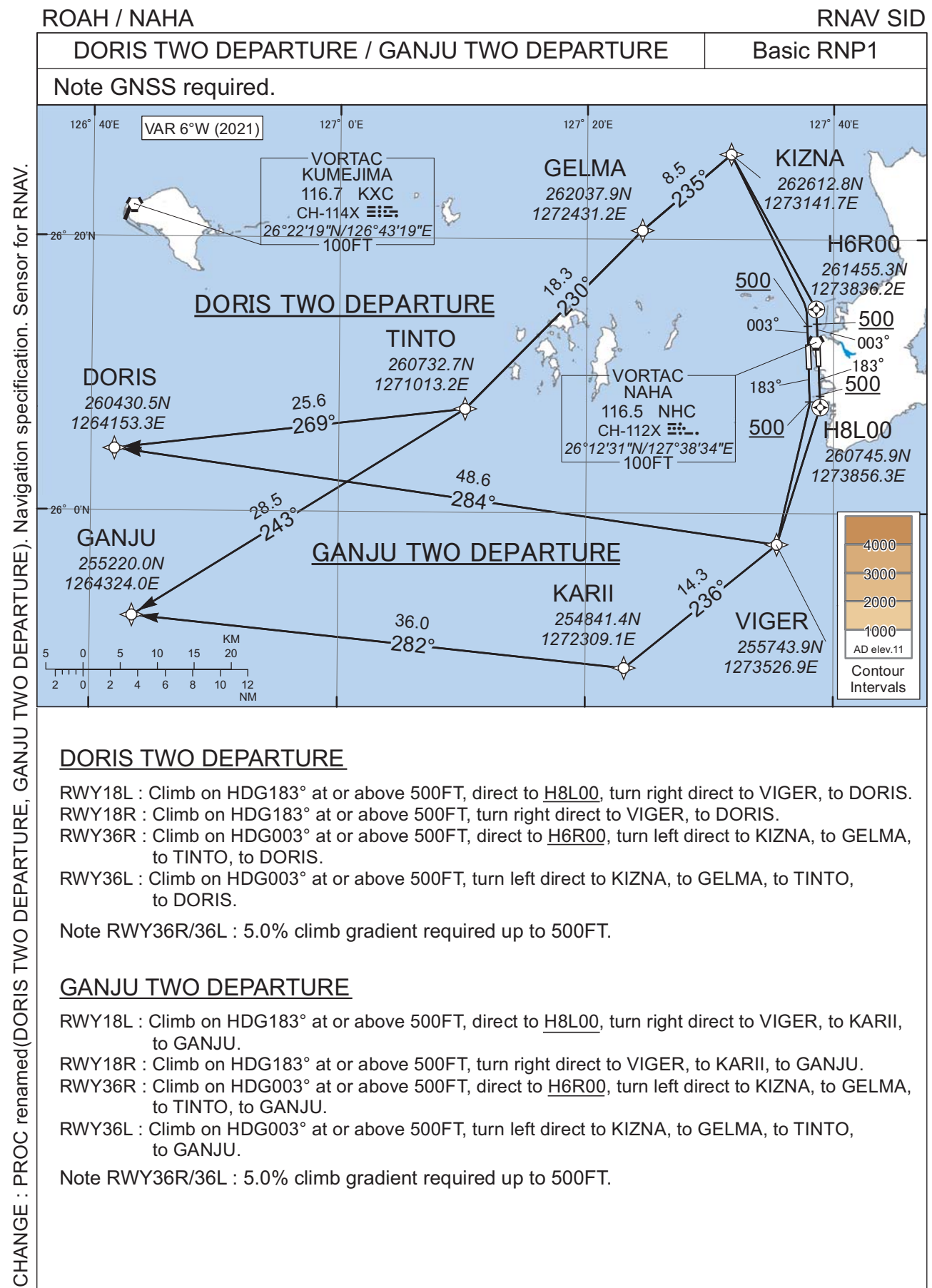
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIZNA	-	-	-5.6	-	-	-	-	-	Basic RNP1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	Basic RNP1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	Basic RNP1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	Basic 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	-	-	-	-	-	Basic RNP1
002	TF	VOLVO	-	026 (020.3)	-5.6	48.6	-	-	-	-	Basic RNP1
003	TF	YUGAF	-	051 (045.7)	-5.6	23.2	-	-	-	-	Basic RNP1
004	TF	AMAMI	-	057 (051.9)	-5.6	95.9	-	-	-	-	Basic RNP1

CHANGE : Navigation specification.

## STANDARD DEPARTURE CHART-INSTRUMENT



## 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	-	-	Basic RNP1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	Basic RNP1
004	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	Basic RNP1
003	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	Basic RNP1
006	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	Basic RNP1
005	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	Basic RNP1

CHANGE : PROC renamed. Navigation specification.



## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

GANJU 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	-	-	Basic RNP1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	Basic RNP1
004	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	Basic RNP1
005	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	Basic RNP1
003	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	Basic RNP1
004	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	Basic RNP1
006	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	Basic RNP1
005	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	Basic RNP1

CHANGE : PROC renamed. Navigation specification.

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.

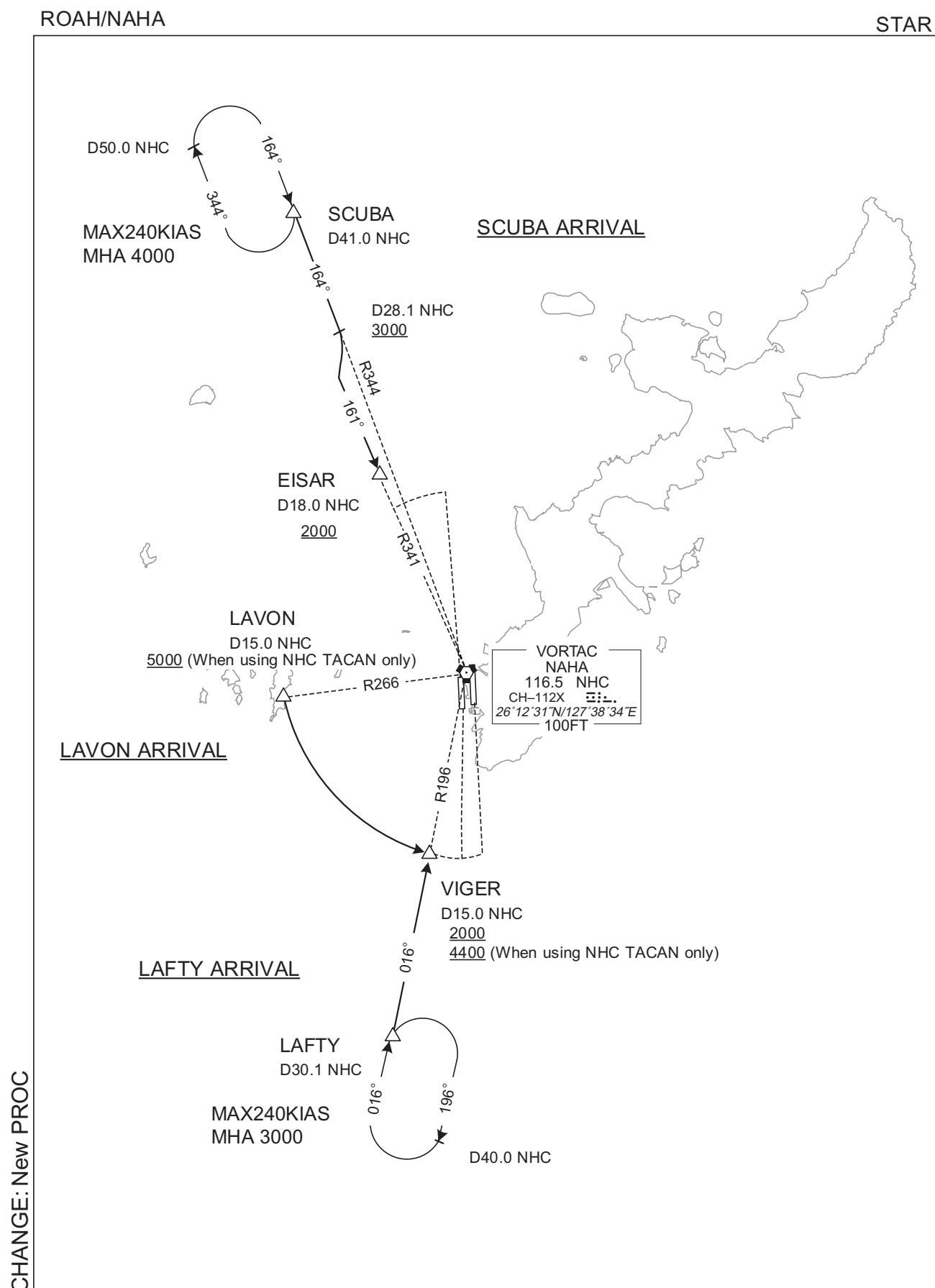
(When using NHC TACAN only)

From over LAFTY, via NHC R196 to VIGER.

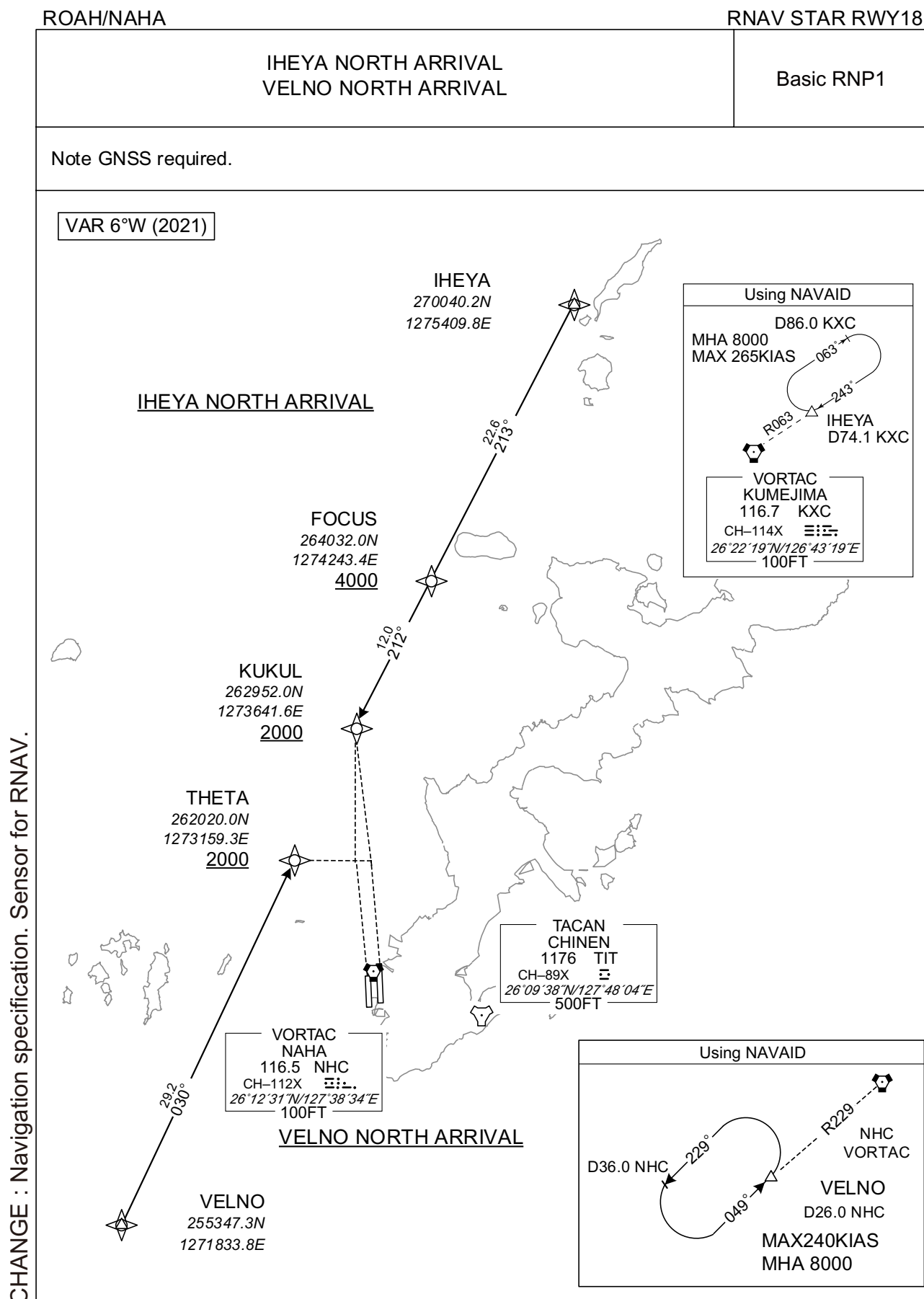
Cross VIGER at or above 4400FT.

CHANGE: New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT



CHANGE : Navigation specification. Sensor for RNAV.

## 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	-	-	-	-	-	Basic RNP1
002	TF	FOCUS	-	213 (206.9)	-5.6	22.6	-	+4000	-	-	Basic RNP1
003	TF	KUKUL	-	212 (206.8)	-5.6	12.0	-	+2000	-	-	Basic RNP1

VELNO NORTH ARRIVAL

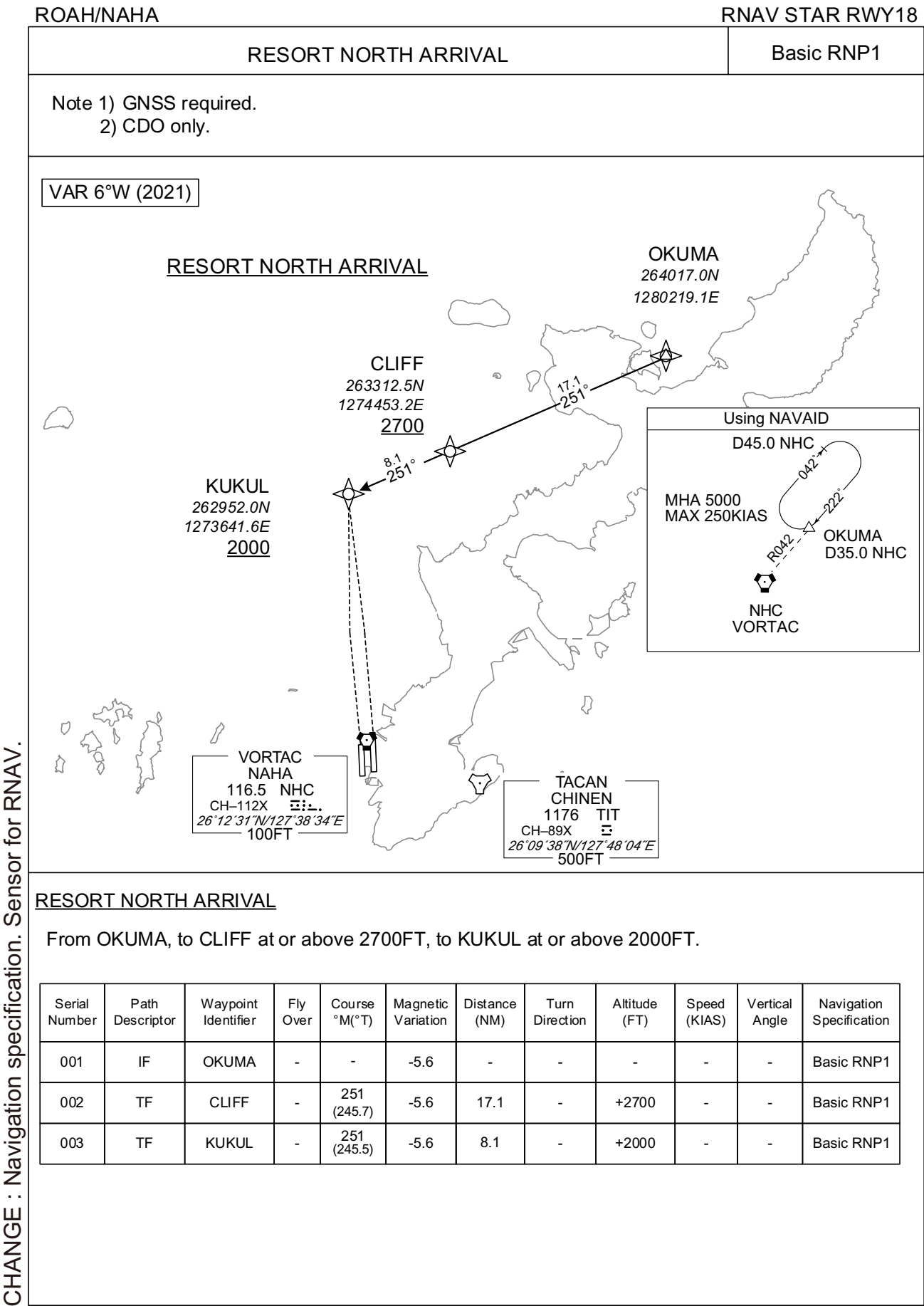
From VELNO, to THETA at or above 2000FT.

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

CHANGE : Navigation specification. Sensor for RNAV.



STANDARD ARRIVAL CHART-INSTRUMENT



CHANGE : Navigation specification. Sensor for RNAV.

## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

RNAV STAR RWY18

GUPTI NORTH ARRIVAL  
ENTOK NORTH ARRIVAL

Basic RNP1

Note 1) GNSS required. 2) CDO only.

VAR 6°W (2021)

GUPTI NORTH ARRIVALGUPTI  
290124.5N  
1280918.7E  
FL200IHEYA  
270040.2N  
1275409.8EKUKUL  
262952.0N  
1273641.6E  
2000ENTOK  
261914.3N  
1245953.8E  
FL170YEEZY  
262018.1N  
1265032.5E  
2100THETA  
262020.0N  
1273159.3E  
2000ENTOK NORTH ARRIVALVORTAC  
NAHA  
116.5 NHC  
CH-112X  
26°12'31"N/127°38'34"E  
100FTTACAN  
CHINEN  
1176 TIT  
CH-89X  
26°09'38"N/127°48'04"E  
500FT

CHANGE: VAR. PROC course.

## STANDARD ARRIVAL CHART-INSTRUMENT

## ROAH / NAHA

## RNAV STAR RWY18

GUPTI NORTH ARRIVAL

From GUPTI at or above FL200, to IHEYA, 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	GUPTI	-	-	-5.6	-	-	+FL200	-	-	Basic RNP1
002	TF	IHEYA	-	192 (186.4)	-5.6	121.6	-	-	-	-	Basic RNP1
003	TF	KUKUL	-	213 (206.9)	-5.6	34.6	-	+2000	-	-	Basic RNP1

ENTOK NORTH ARRIVAL

From ENTOK at or above FL170, to YEEZY at or above 2100FT, 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	ENTOK	-	-	-5.6	-	-	+FL170	-	-	Basic RNP1
002	TF	YEEZY	-	095 (089.0)	-5.6	99.2	-	+2100	-	-	Basic RNP1
003	TF	THETA	-	095 (089.8)	-5.6	37.2	-	+2000	-	-	Basic RNP1

CHANGE: VAR. PROC course.

## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

RNAV STAR RWY36

IHEYA SOUTH ARRIVAL  
VELNO SOUTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 6°W (2021)

IHEYA SOUTH ARRIVALIHEYA  
270040.2N  
1275409.8E

Using NAVAID

D86.0 KXC  
MHA 8000  
MAX 265KIAS  
063°  
243°  
R063  
IHEYA  
D74.1 KXCVORTAC  
KUMEJIMA  
116.7 KXC  
CH-114X  
26°22'19"N/126°43'19"E  
100FT37.1  
184°

Using NAVAID

D36.0 NHC  
229°  
049°  
R229  
NHC  
VORTAC  
VELNO  
D26.0 NHC  
MAX240KIAS  
MHA 8000HASSA  
262334.1N  
1275516.0E  
11000VORTAC  
NAHA  
116.5 NHC  
CH-112X  
26°12'31"N/127°38'34"E  
100FTVELNO SOUTH ARRIVALTACAN  
CHINEN  
1176 TIT  
CH-89X  
26°09'38"N/127°48'04"E  
500FT22.6  
210°SEIFA  
260303.9N  
1274448.5E  
200015.7  
081°  
VELNO  
255347.3N  
1271833.8EVIGER  
255743.9N  
1273526.9E  
2000

CHANGE : Navigation specification. Sensor for RNAV.

## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH / NAHA

RNAV STAR RWY36

IHEYA SOUTH ARRIVAL

From 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	IHEYA	-	-	-5.6	-	-	-	-	-	Basic RNP1
002	TF	HASSA	-	184 (178.5)	-5.6	37.1	-	+11000	-	-	Basic RNP1
003	TF	SEIFA	-	210 (204.6)	-5.6	22.6	-	+2000	-	-	Basic RNP1

VELNO SOUTH ARRIVAL

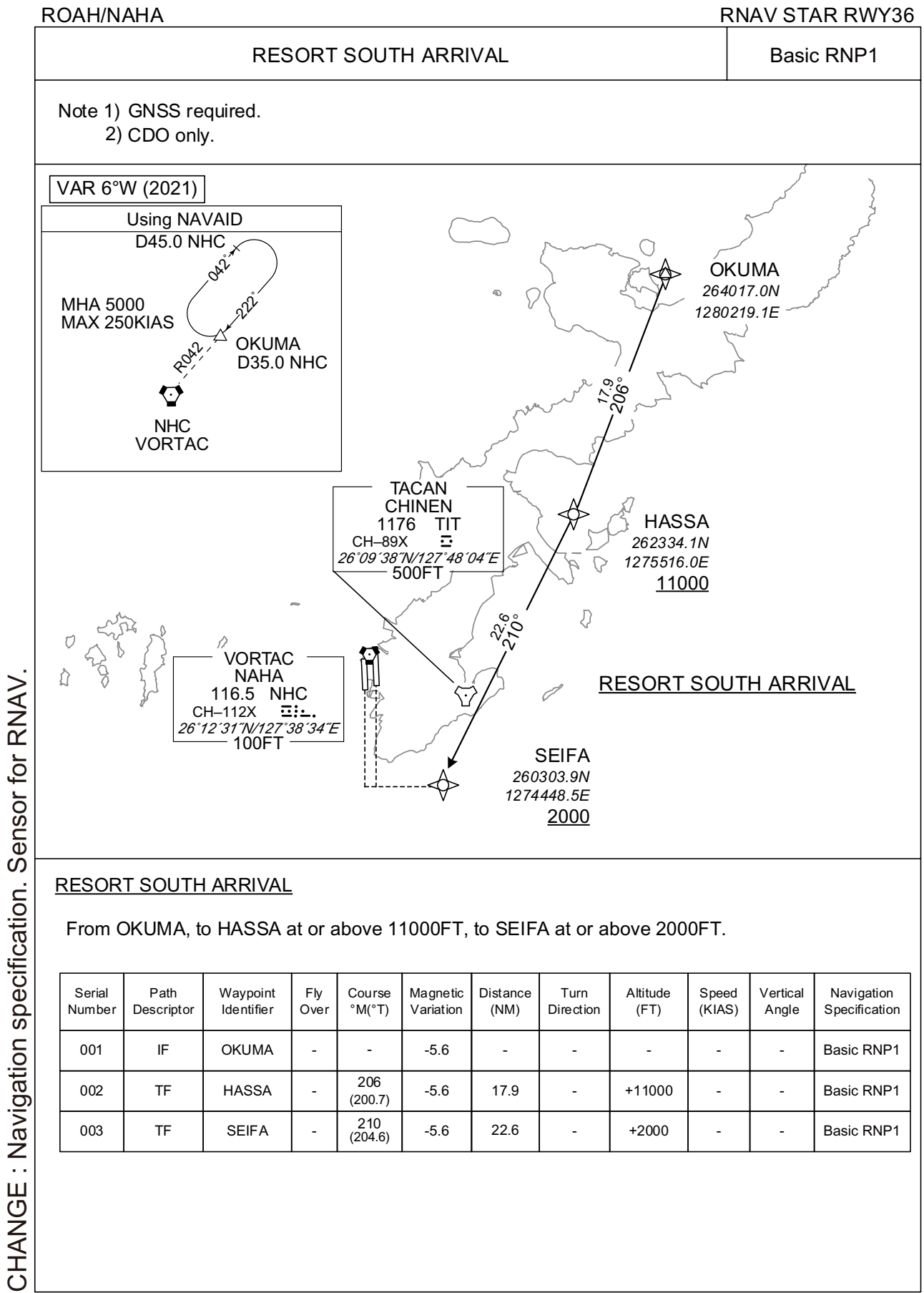
From VELNO, to VIGER at or above 2000FT.

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	VELNO	-	-	-5.6	-	-	-	-	-	Basic RNP1
002	TF	VIGER	-	081 (075.4)	-5.6	15.7	-	+2000	-	-	Basic RNP1

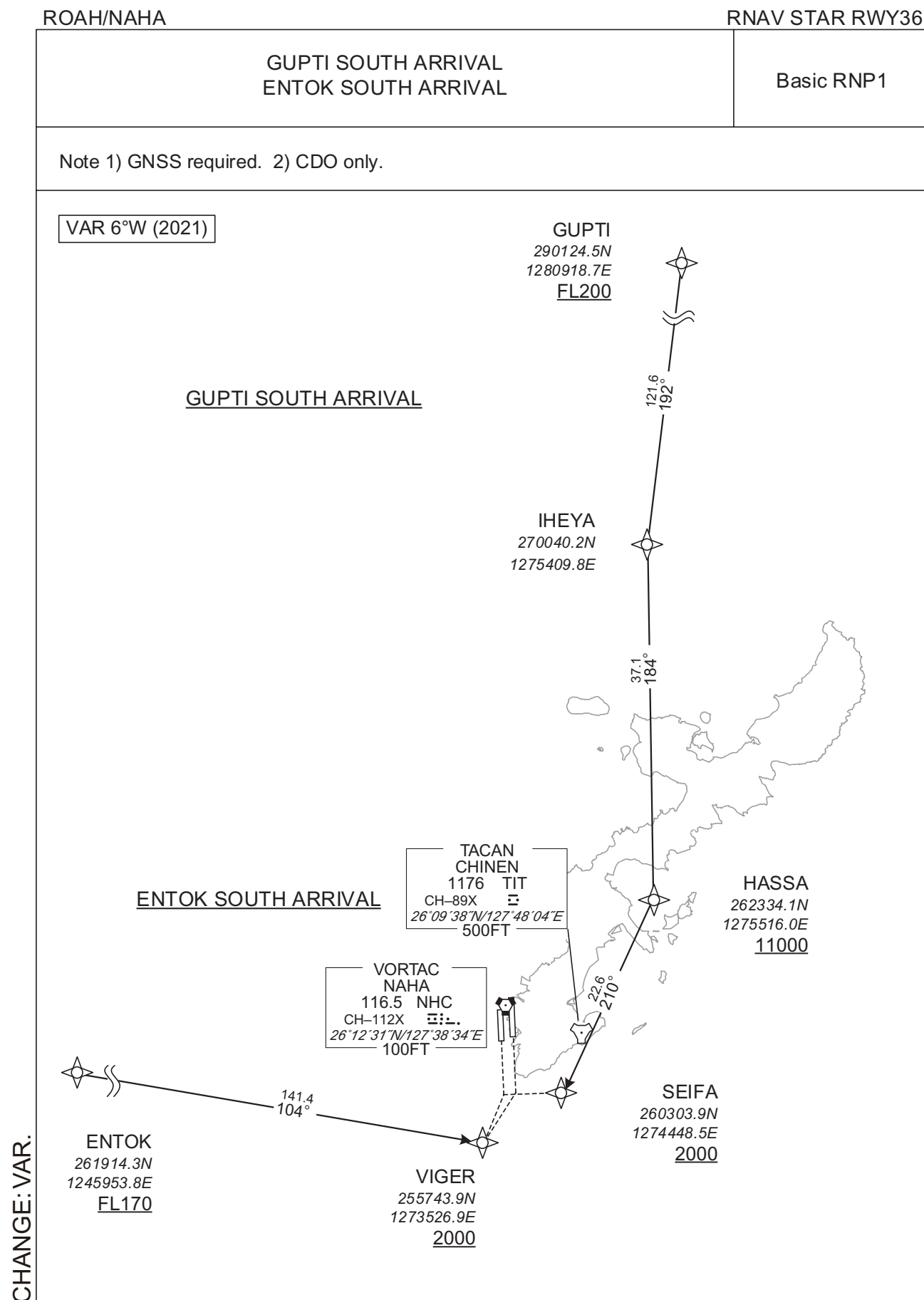
CHANGE : Navigation specification. Sensor for RNAV.



STANDARD ARRIVAL CHART-INSTRUMENT



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

ENTOK SOUTH ARRIVAL

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

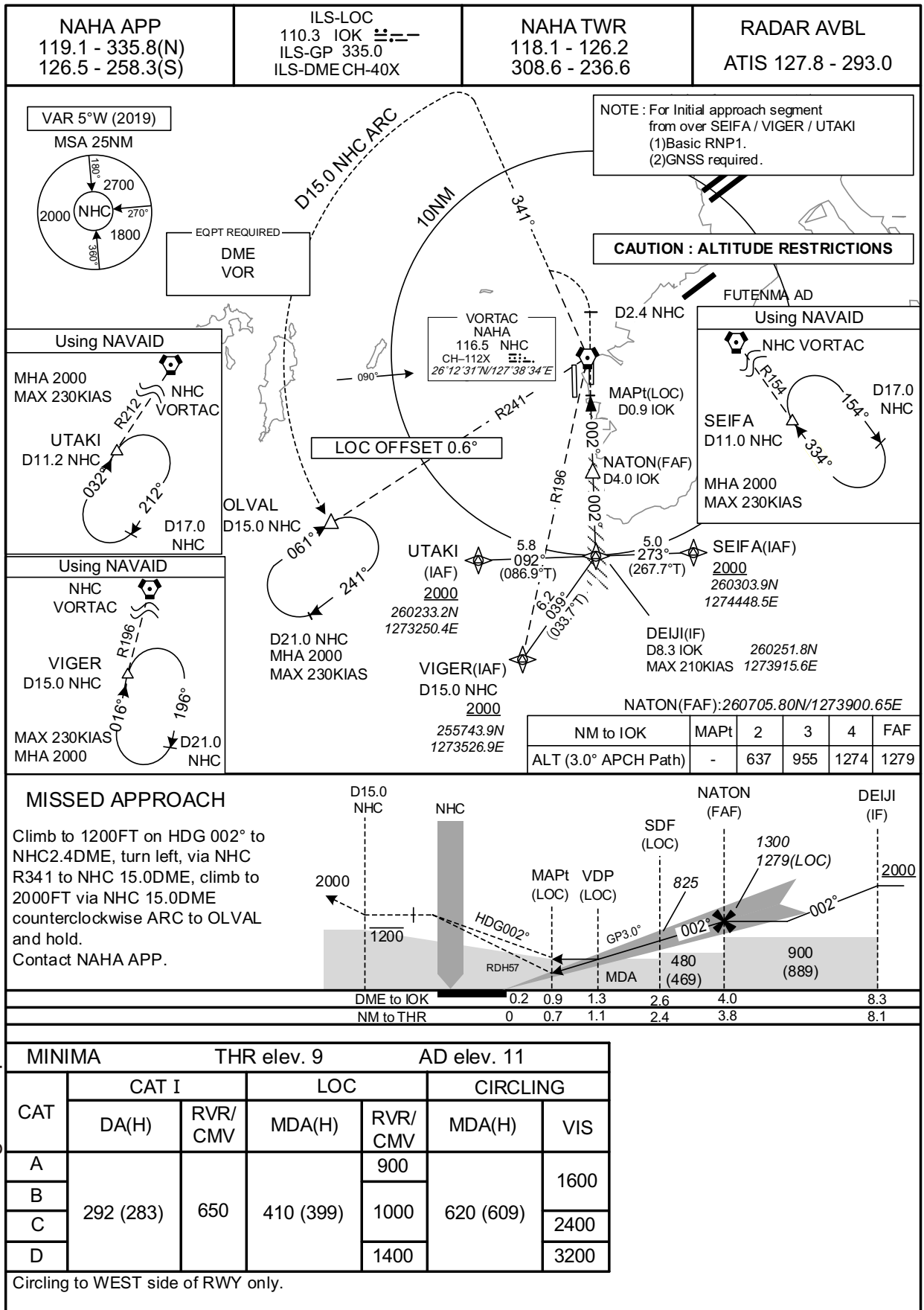
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ENTOK	-	-	-5.6	-	-	+FL170	-	-	Basic RNP1
002	TF	VIGER	-	104 (098.2)	-5.6	141.4	-	+2000	-	-	Basic RNP1

CHANGE: VAR.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS Z or LOC Z RWY36R

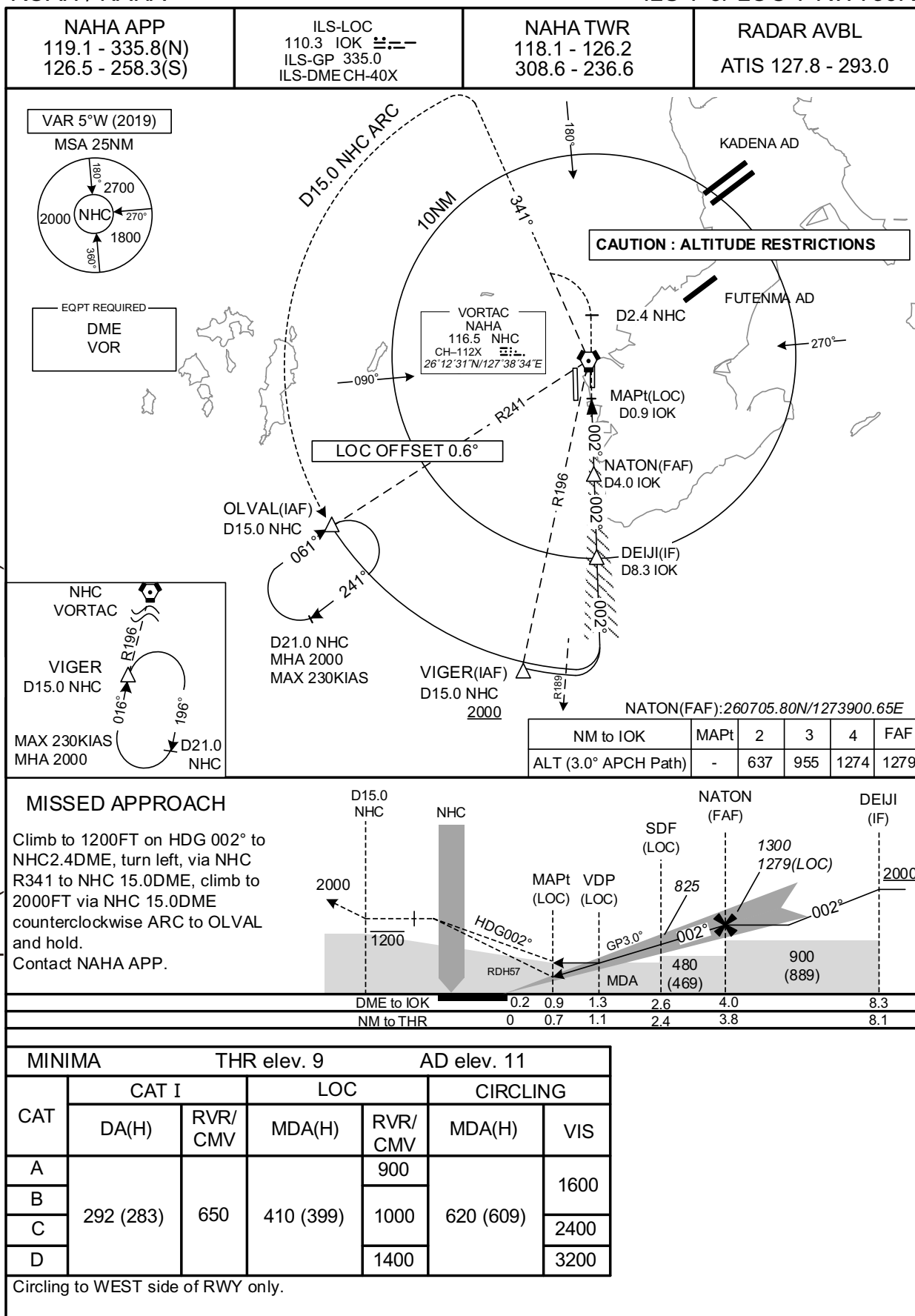


CHANGE: Navigation specification. Sensor for RNAV.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

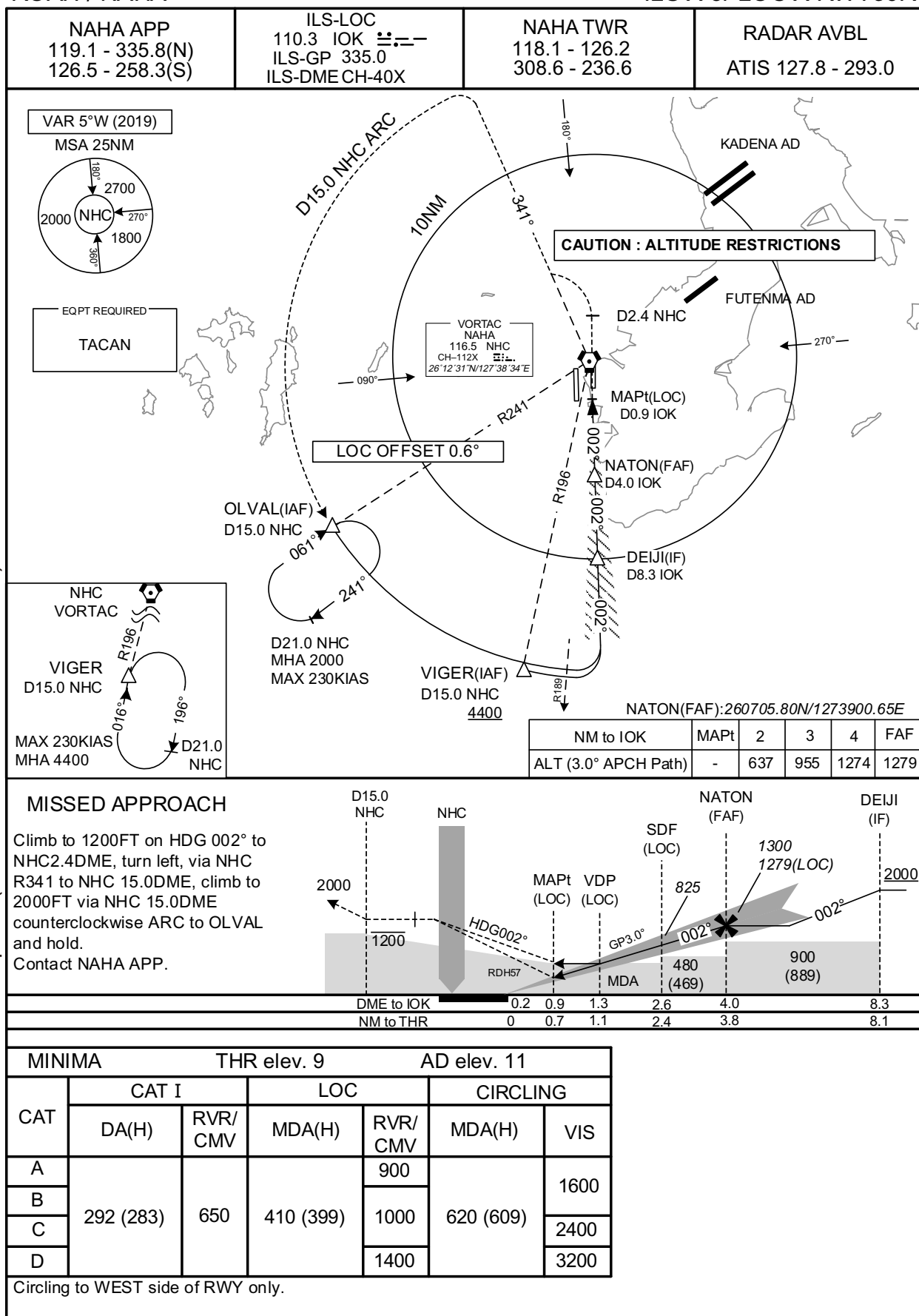
ILS Y or LOC Y RWY36R



## INSTRUMENT APPROACH CHART

ROAH / NAHA

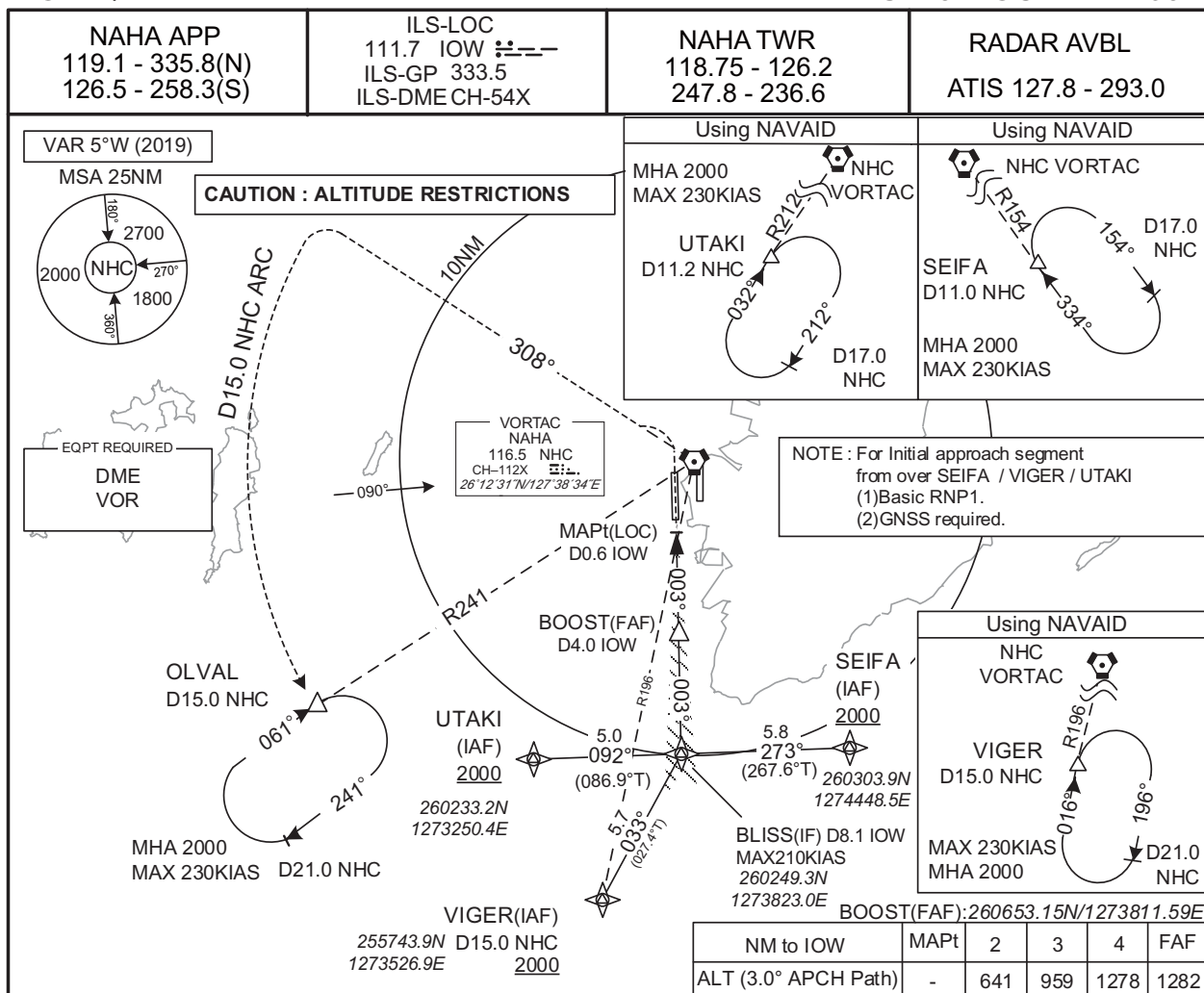
ILS X or LOC X RWY36R



## INSTRUMENT APPROACH CHART

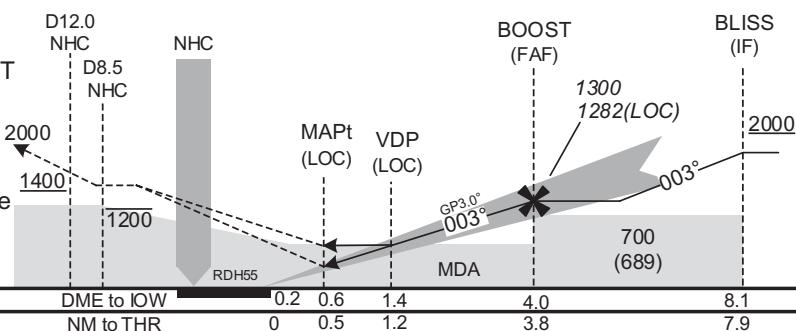
ROAH / NAHA

ILS Z or LOC Z RWY36L



## MISSED APPROACH

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  
 to OLVAL and hold.  
 Cross NHC R308/12.0DME at or above  
 1400FT.  
 Contact NAHA APP.



## MINIMA

THR elev. 14

AD elev. 11

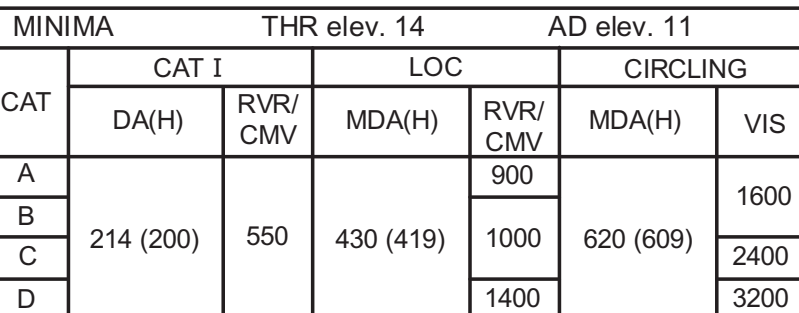
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	214 (200)	550	430 (419)	900	620 (609)	1600
B				1000		2400
C				1400		3200
D						

Circling to WEST side of RWY only.

CHANGE: Navigation specification. Sensor for RNAV.

## ROAH / NAHA

ILS Y or LOC Y RWY36L



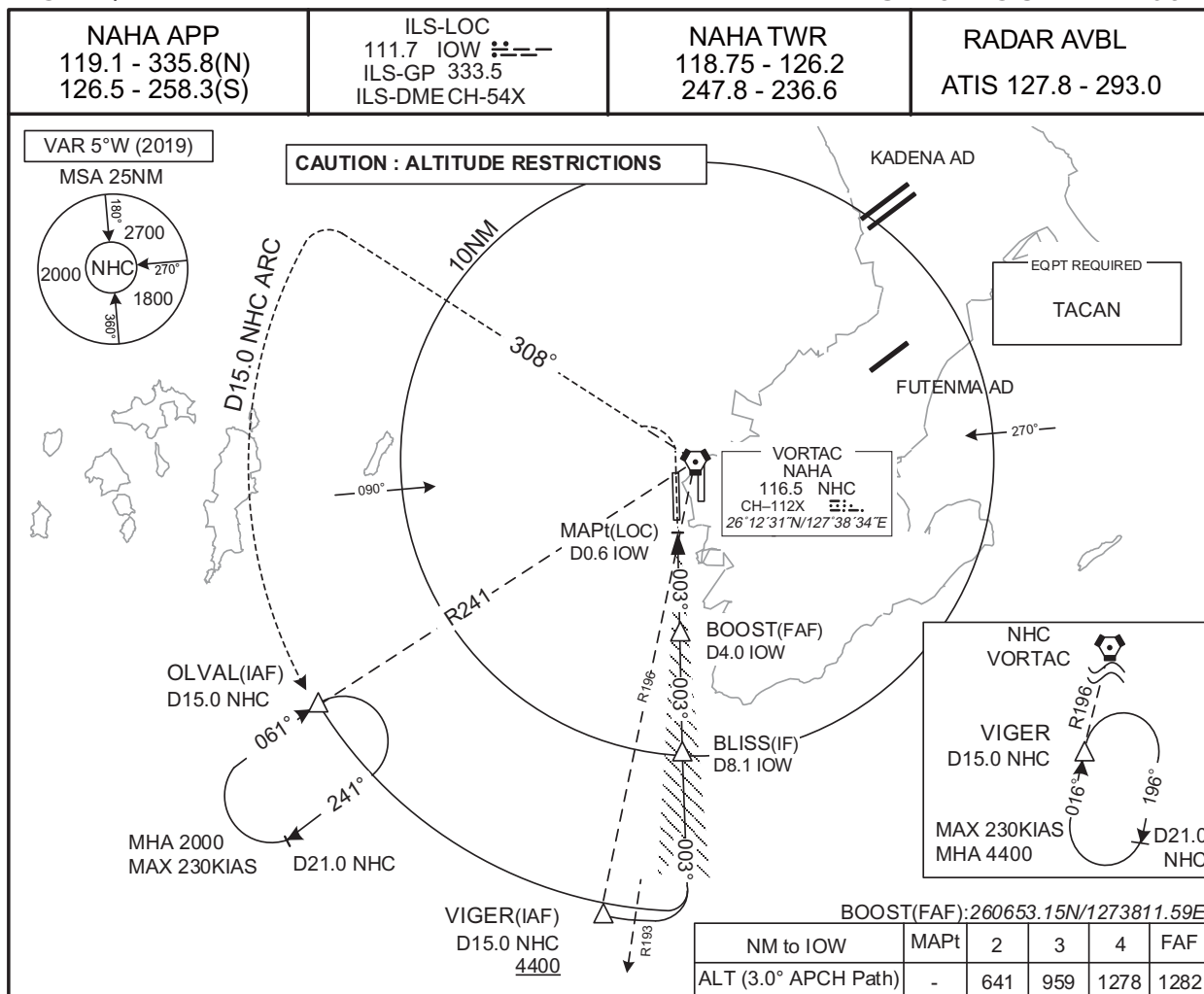
## CHANGE: New PROC



## INSTRUMENT APPROACH CHART

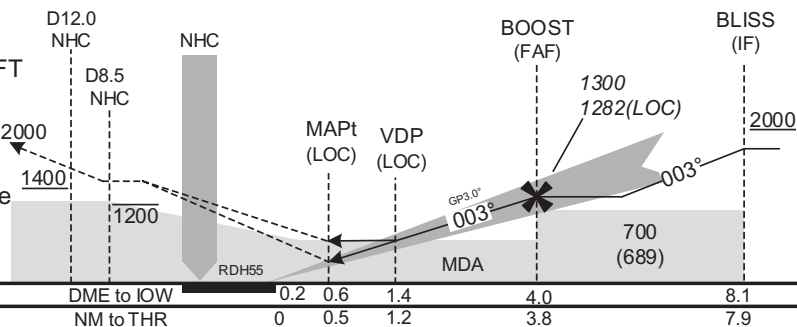
ROAH / NAHA

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.



CHANGE: New PROC

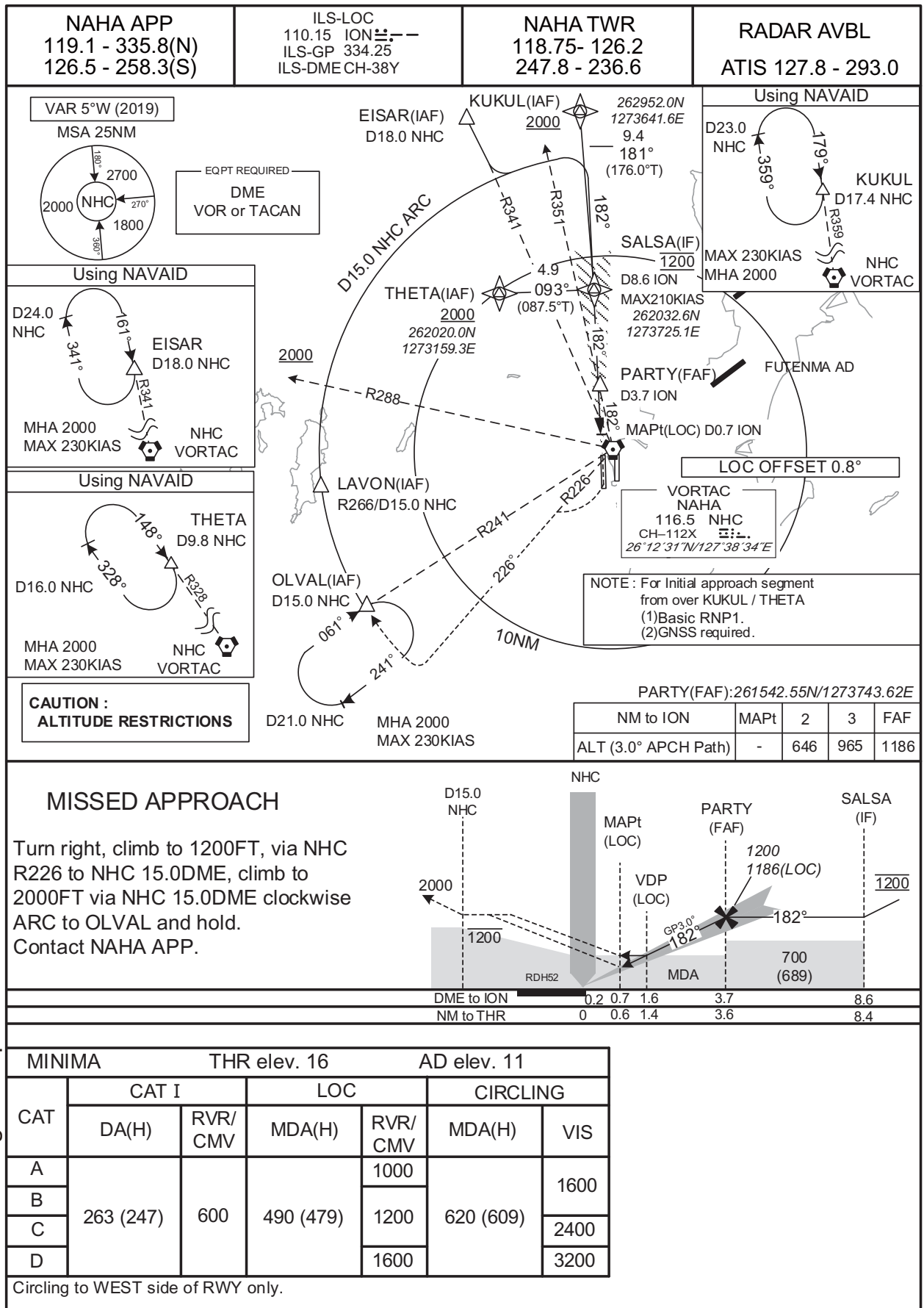
MINIMA		THR elev. 14		AD elev. 11			
CAT	CAT I		LOC		CIRCLING		
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	214 (200)	550	430 (419)	900	620 (609)	1600	
B				1000			
C							2400
D							

Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

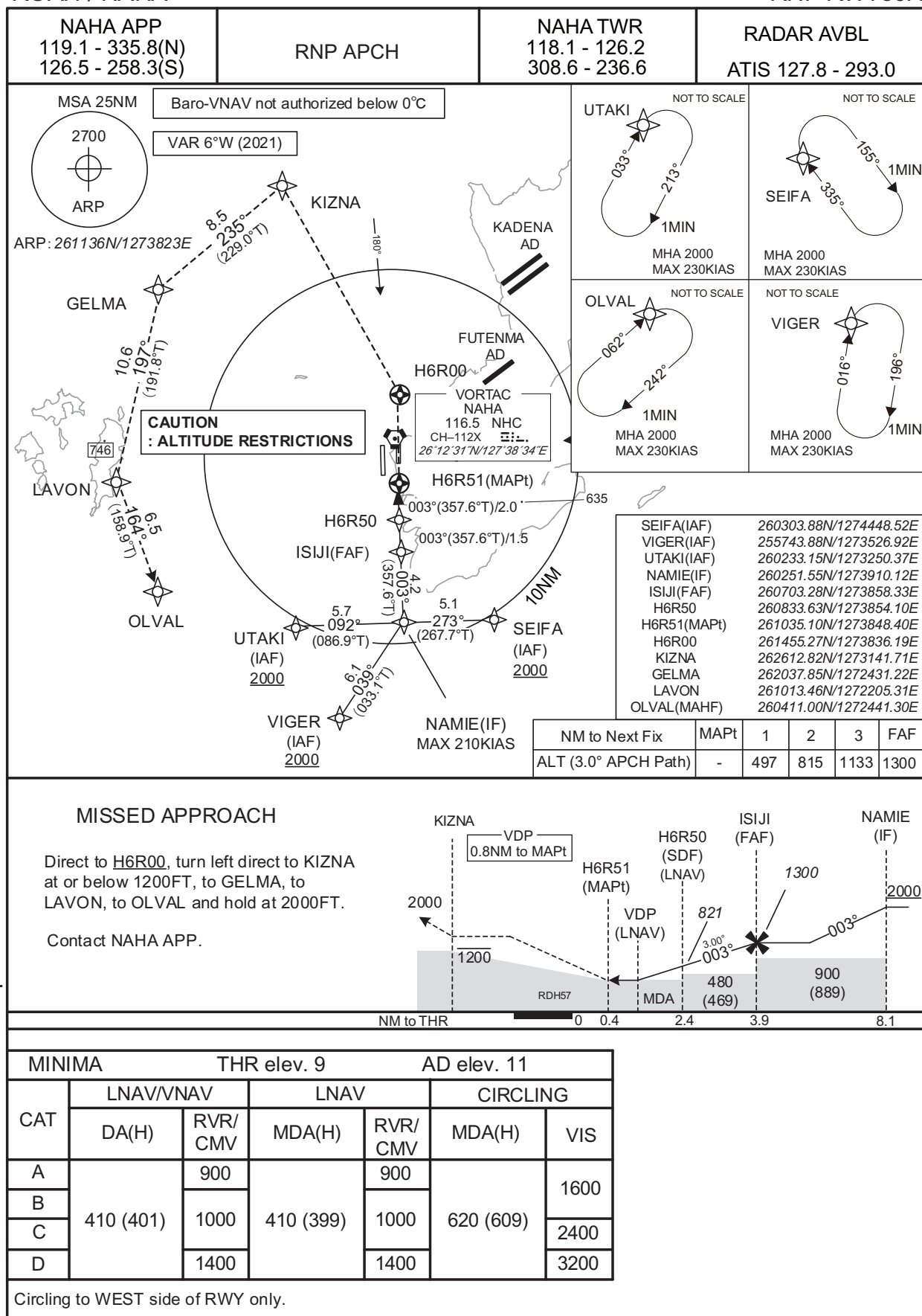
ILS or LOC RWY18R



## INSTRUMENT APPROACH CHART

ROAH / NAHA

RNP RWY36R

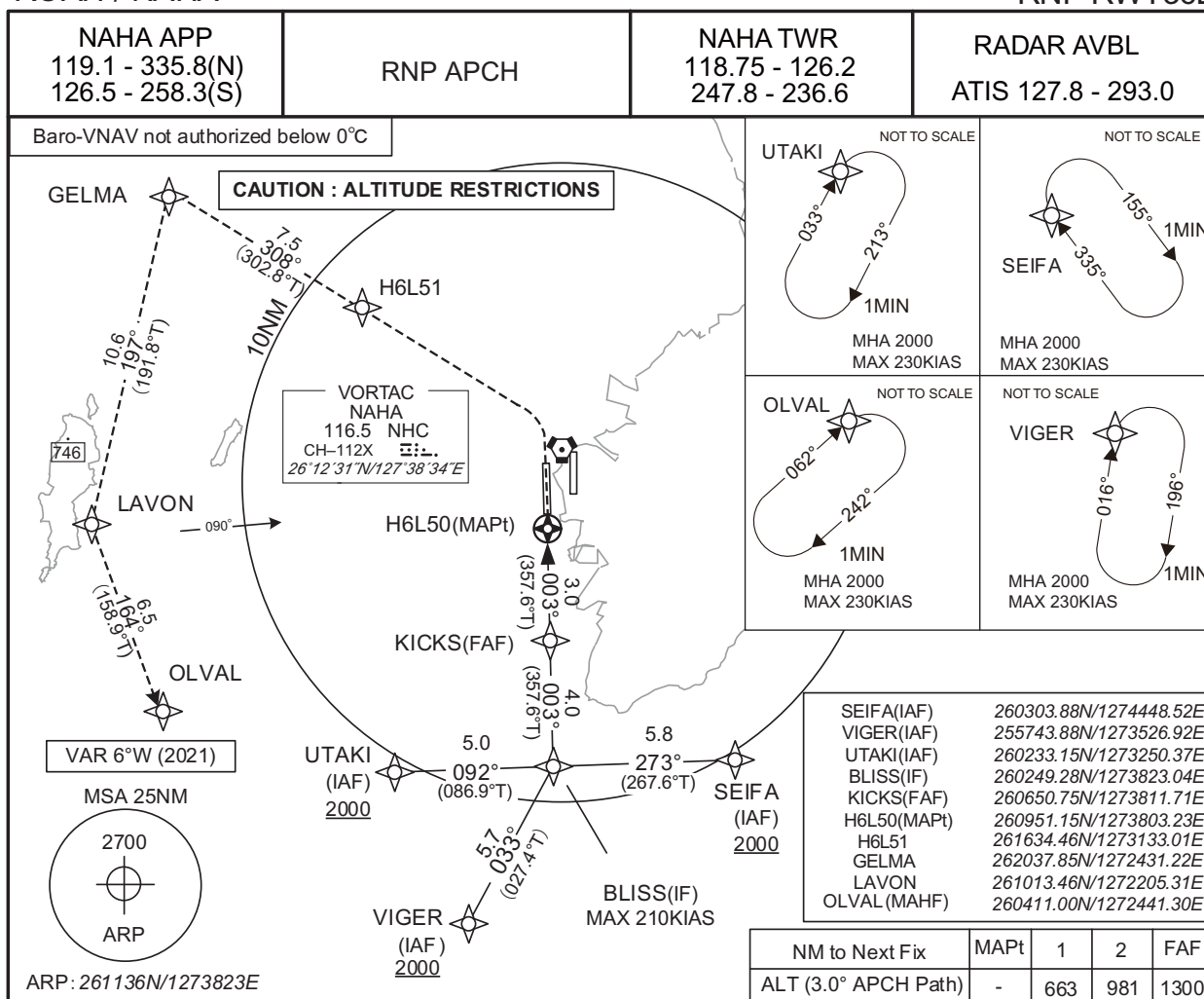


CHANGE:PROC renamed. Requirement for RNP.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

RNP RWY36L

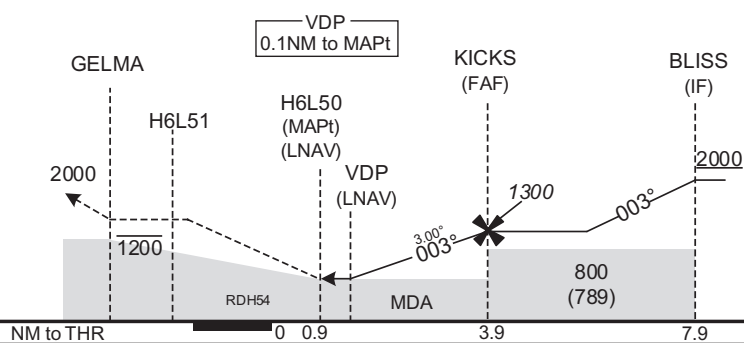


CHANGE:PROC renamed. Requirement for RNP.

**MISSED APPROACH**

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

Contact NAHA APP.



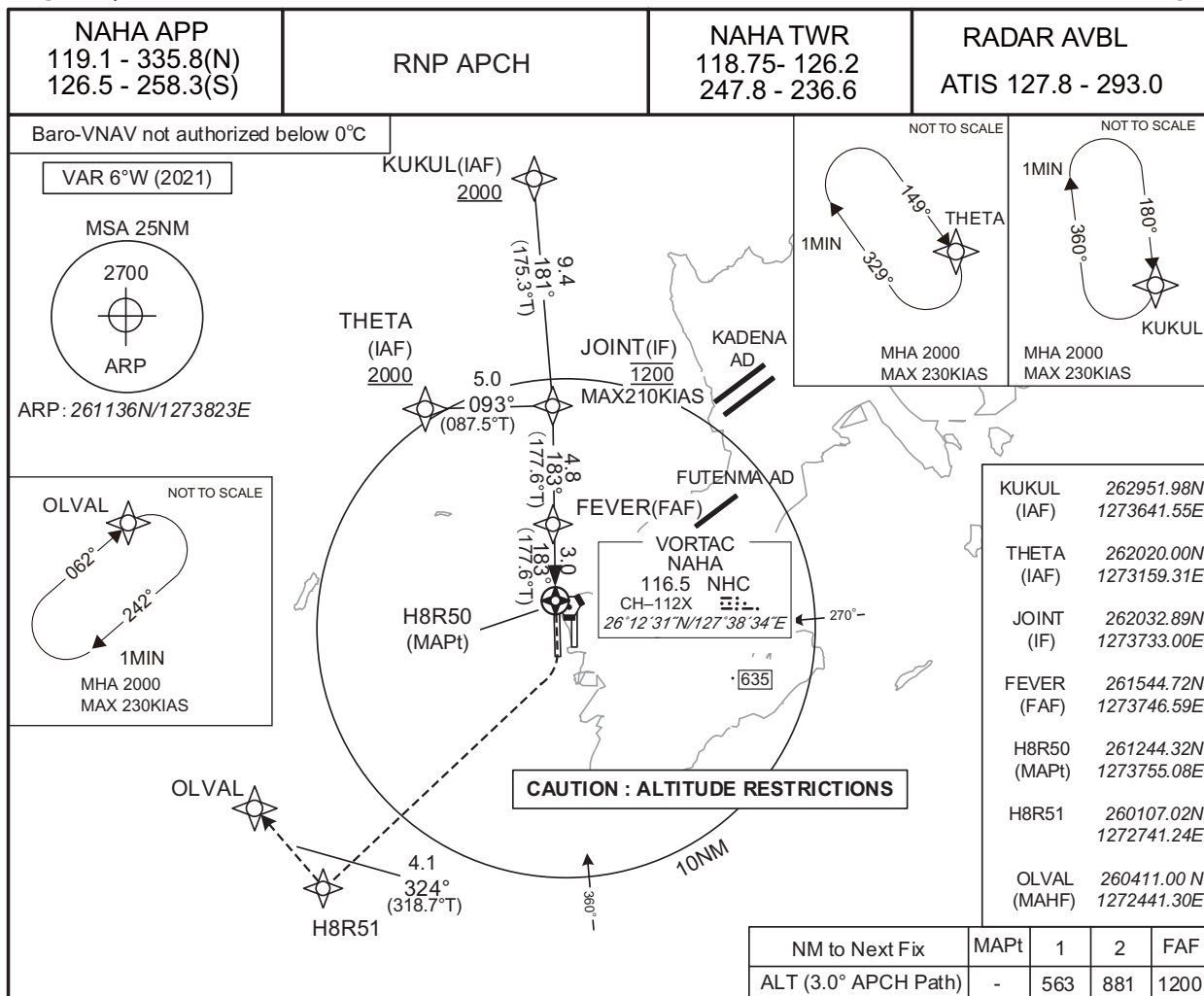
MINIMA		THR elev. 14		AD elev. 11		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	370 (356)	900	370 (359)	900	620 (609)	1600
B		1000		1000		2400
C						
D						

Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

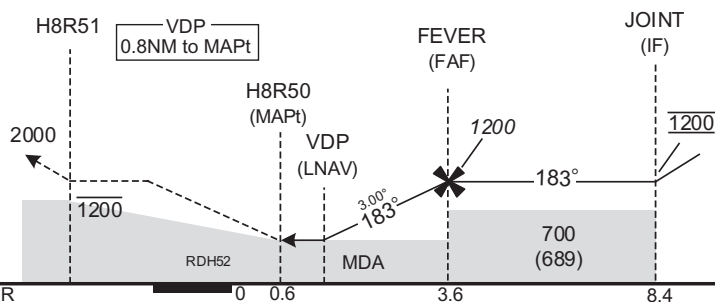
ROAH / NAHA

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		
C						1600
D						

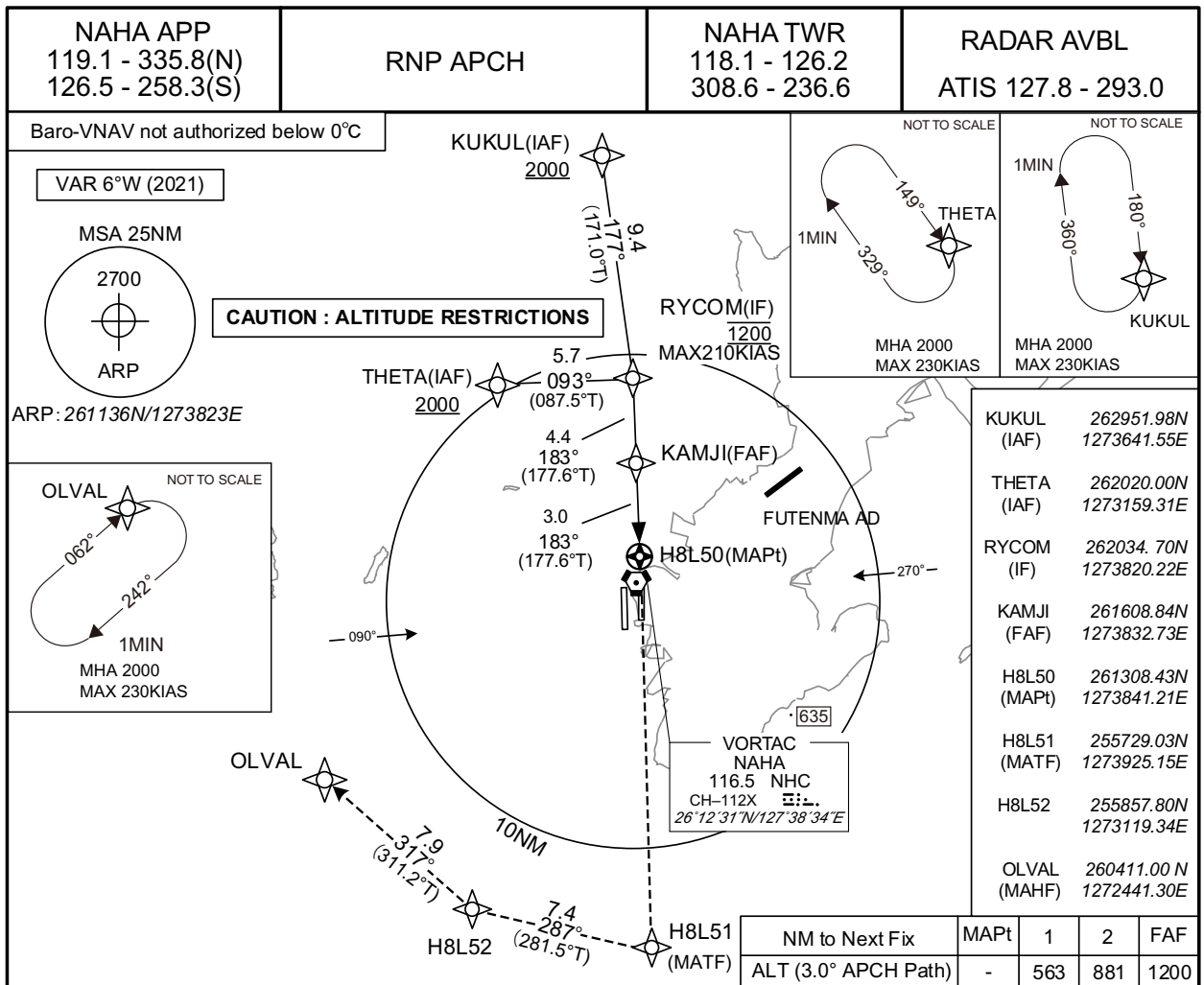
Circling to WEST side of RWY only.

CHANGE:PROC renamed. Requirement for RNP.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

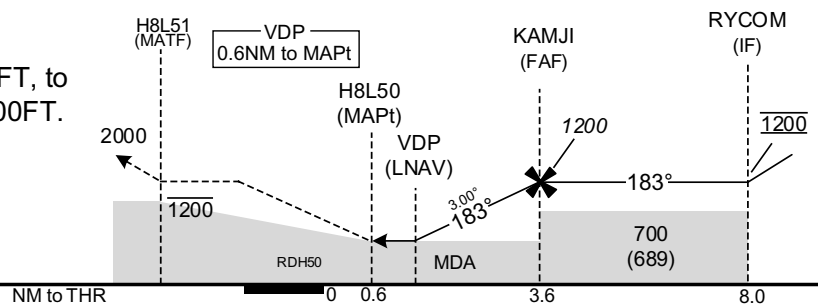
RNP RWY18L



## MISSED APPROACH

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

Contact NAHA APP.



MINIMA		THR elev. 11		AD elev. 11	
CAT	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	
C		1400		1400	
D		1600		1600	

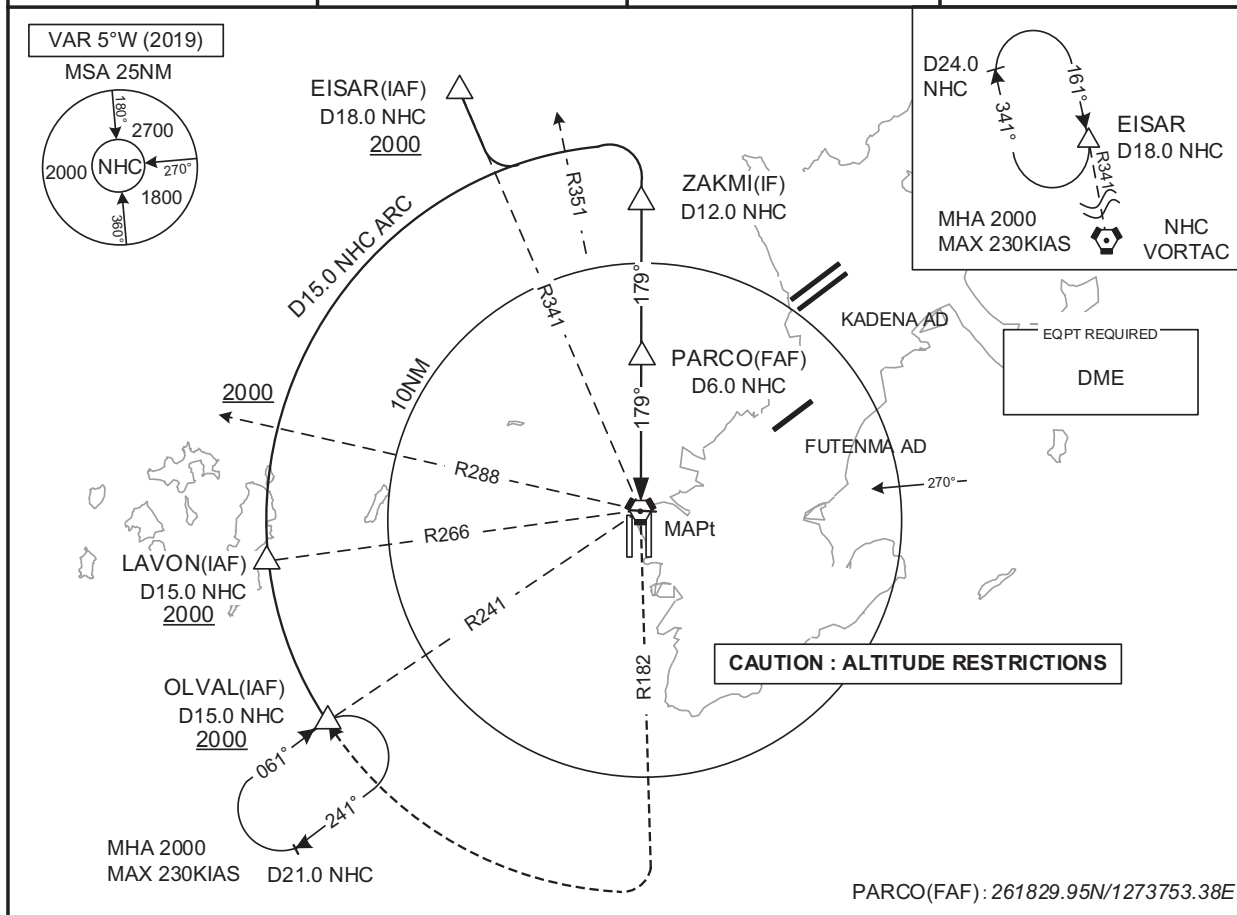
Circling to WEST side of RWY only.

CHANGE:PROC renamed. Requirement for RNP.

## ROAH / NAHA

VOR A or TACAN B

NAHA APP 119.1 - 335.8(N) 126.5 - 258.3(S)	NAHA VORTAC 116.5 NHC CH-112X  26°12'31"N/127°38'34"E	NAHA TWR 118.75 - 118.1 247.8 - 308.6	RADAR AVBL  ATIS 127.8 - 293.0
--	---	---	--------------------------------------



Climb to 1200FT via NHC R182 to NHC  
15.0DME, climb to 2000FT via NHC  
15.0DME clockwise ARC to OLVAL and  
hold.  
Contact NAHA APP.

The diagram illustrates the synthesis of MAPt. It begins with a reaction of DME to NHC, followed by a reaction with NHC to form MAPt. MAPt is then reacted with PARCO (FAF) to form SDF, which is finally reacted with ZAKMI (IF) to form the final product. The diagram includes chemical structures and labels for each step, with a 179° angle indicated for the reaction between PARCO (FAF) and SDF.

MINIMA		AD elev. 11
CAT	CIRCLING	
	MDA(H)	VIS
A	620 (609)	1600
B		
C		2400
D		3200

Circling to WEST side of RWY only.

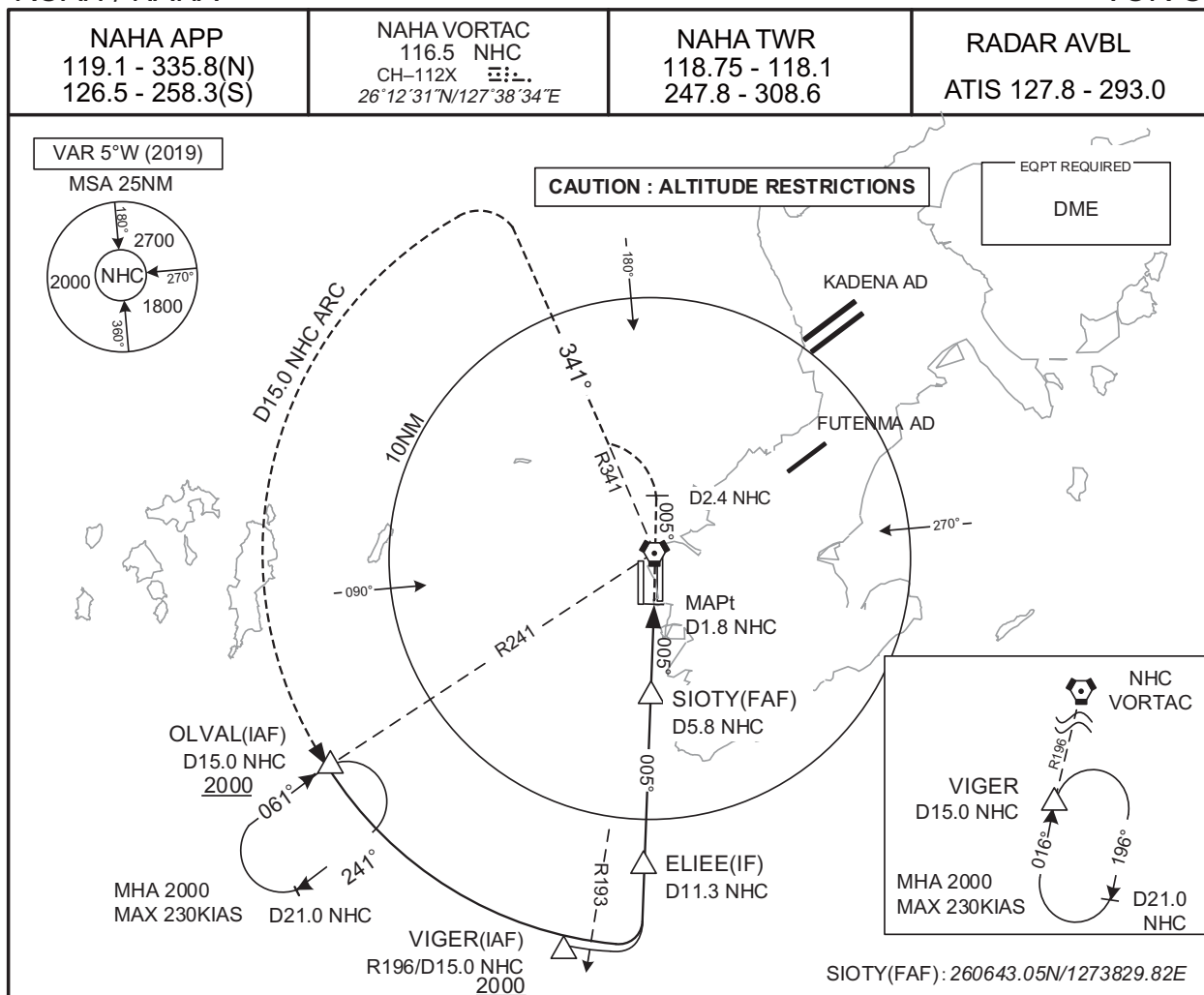
## CHANGE: New PROC



INSTRUMENT APPROACH CHART

ROAH / NAHA

VOR C



CHANGE: New PROC



## 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.

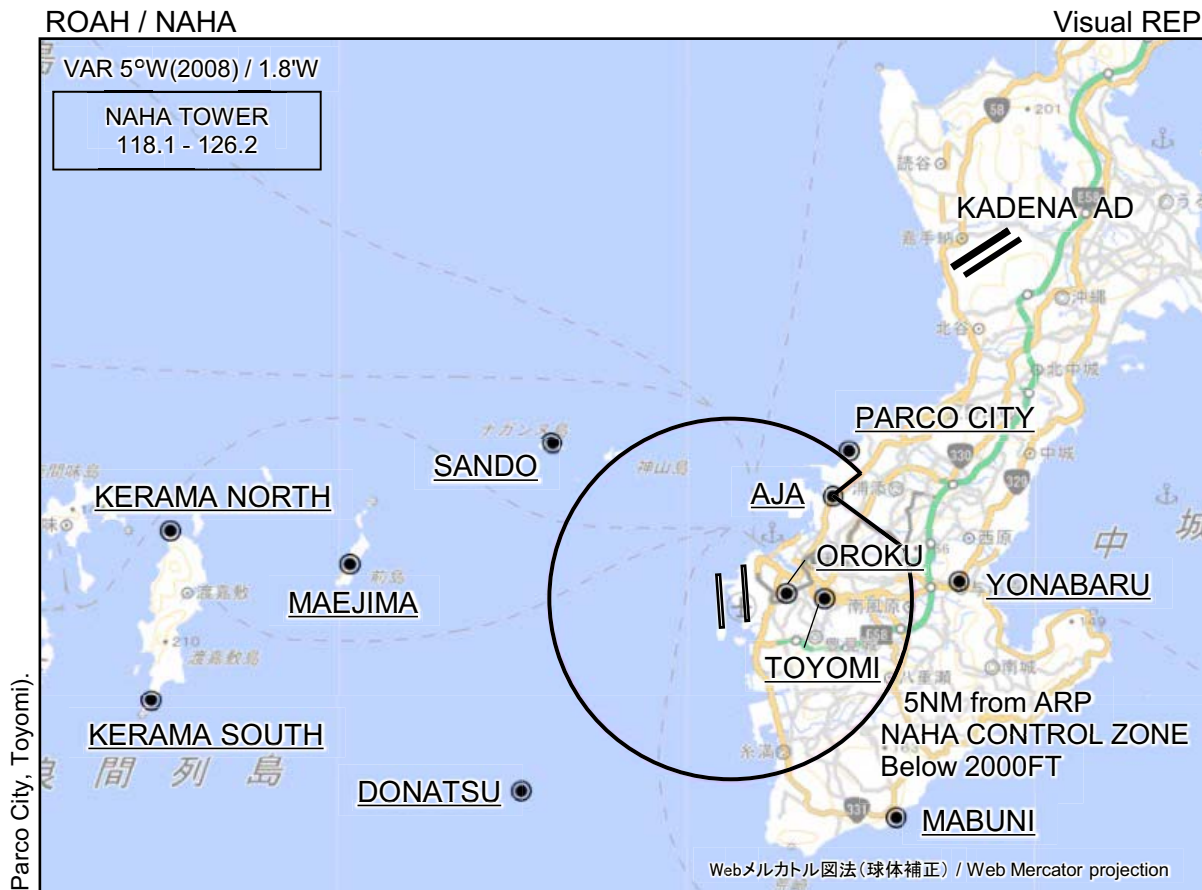
Timing not authorized for defining the MAPt.



CHANGE: New PROC

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.



※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).

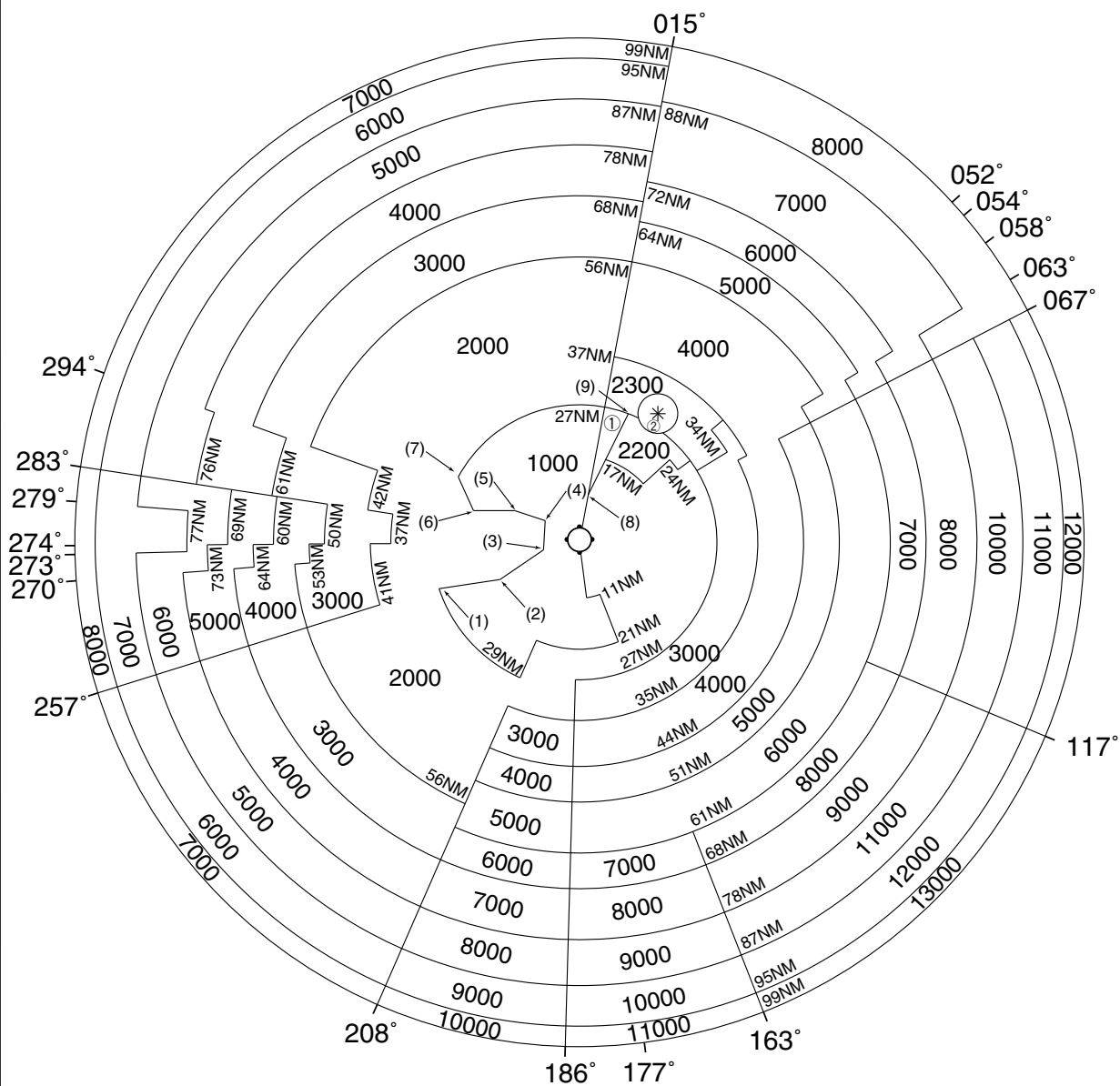
CHANGE : Map updated. BRG/DIST from ARP. Visual REP established(Oroku, Parco City, Toyomi).

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 |                      |                                |